

### Appendix C: Supervision of Physics Dissertations at Princeton, 1938 – 1978

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Wheeler	John A	Feynman	Richard P	1942	The Principle of Least Action in Quantum Mechanics	none
Wheeler	John A	Plass	Gilbert N	1947	Black Hole Radiation in the Theory of Action at a Distance	none
Wheeler	John A	Singer	S Fred	1949	The Density Spectrum and Latitude Dependence of Extensive Cosmic Ray Air Showers	J A Van Allen H E Tatel R F Petersen L W Fraser [App Phys Lab, Johns Hopkins ] also officers and men of USS Wyandot
Wheeler	John A	Coor	Thomas JR	1949	Ionization Chamber Bursts at High Altitudes	R Sherr G T Reynolds G A Snow

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Wheeler	John A	Wightman	Arthur Strong	1950	The Moderation and Absorption of Negative Pi Mesons in Hydrogen	R E Marshak E P Wigner V Bargmann D Bohm
Wheeler	John A	Hill	David Lawrence	1951	Dynamical Analysis of Nuclear Fission	J von Neuman F Murray J Tukey H H Goldstein
Wheeler	John A	Toll	John Sampson	1952	The Dispersion Relation for Light and Its Application to Problems Involving Electron Pairs	none
Wheeler	John A	Ford	Kenneth W	1953	Applications of the Collective Model of the Nucleus	E Feenberg
Wheeler	John A	Chase	David M	1956	Nucleon-Nuclear Wall Interaction in Scattering Processes	D L Hill
Wheeler	John A	Griffin	James J	1956	Collective Motions in Atomic Nuclei by the Method of Generator Coordinates	none

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Wheeler	John A	Komar	Arthur B	1956	Some Consequences of Mach's Principle for the General Theory of Relativity	none
Wheeler	John A	Everett	Hugh III	1957	On the Foundations of Quantum Mechanics	N Bohr H J Greenwald A Petersen A Stern L Rosenfeld
Wheeler	John A	Misner	Charles W	1957	Outline of Feynman Quantization of General Relativity: Derivation of Field Equations: Vanishing of the Hamiltonian	B DeWitt C DeWitt J L Anderson S Deser B Laurent
Wheeler	John A	Brill	Dieter R	1959	Time-Symmetric Solutions of the Einstein Equations: Initial Value Problem and Positive Definite Mass	V Bargmann H Bondi C P Spencer
Wheeler	John A	Euwema	Robert Noel	1959	Neutrinos and Their Interaction with Matter	B Podolsky F G Werner

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Wheeler	John A	Fletcher	John George	1959	Local Conservation Laws in Generally Covariant Theories: Their Relationships and Their Uses	J R Klauder V Bargmann
Wheeler	John A	Harrison	B Kent	1959	Exact Three-Variable Solutions of the Field Equations of General Relativity	V Bargmann C Misner W Kundt H Buchdahl F Pirani R N Euwema R W Lindquist
Wheeler	John A	Klauder	John R	1959	The Action Option and a Feynman Quantization of Spinor Fields in Terms of Ordinary C- Numbers	R Haag
Wheeler	John A	Putnam	Peter A	1960	Photon Scattering by the Statistical Atom	none

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Wheeler	John A	Fuller	Robert W	1961	Nonadiabatic Changes of Potential and Neutron Production in Fission	W Swiatecki N Newby H Bowman S Thompson [Berkeley] J Rasmussen I Perlman M G White R Sherr
Wheeler	John A	Sperber	Daniel	1961	Nuclear States with High Angular Momenta and their Stability	none
Wheeler	John A	Wakano	Masami	1961	Foundations for the Treatment of the Scattering of Light by the Hydrodynamical and Statistical Atom Model	none
Wheeler	John A	Lindquist	Richard W	1962	The Two Body Problem in Geometrodynamics	C W Misner V Bargmann K O Friedrichs D Brill K Harrison F Manasse

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Wheeler	John A	Manasse	Fred K	1962	Distortion in the Metric of A Small Center of Gravitational Attraction due to Its Proximity to a Very Large Mass	C W Misner
Wheeler	John A	Ball	Joseph A	1963	Some Applications of the Thomas-Fermi Atom with Hydrodynamic Oscillation <sup>1</sup>	none
Wheeler	John A	Dempster	J R Hugh	1964	Feynman Quantization in Field Theory	none
Wheeler	John A	Shepley	Lawrence C	1965	SO [3, R] – Homogenous Cosmologies	C W Misner [Maryland]

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Wheeler	John A	Thorne	Kip S	1965	Geometrodynamics of Cylindrical Systems	M A Melvin V Bargmann D R Brill R H Dicke B K Harrison A Komar A Lichnerowicz A Papatrou R K Sachs L Shepley J J Stachel G Svetlichny
Wheeler	John A	Geroch	Robert P	1967	Singularities in the Spacetime of General Relativity: Their Definition, Existence, and Local Characteristics	S W Hawking A Staruszkiewicz D Brill R Penrose C Svetlichny P Vajk
Wheeler	John A	Gerlach	Ulrich H	1968	A Third Family of Stable Equilibria?	P J E Peebles

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Wheeler	John A	Ohanian	Hans C	1968	A Model for Photons and Gravitons based on Broken Symmetry	G Svetlichny N Christ
Wheeler	John A	Vajk	J Peter	1968	The Theory of Spherically Symmetric Spacetimes: A New Forumlation	N Steenrod R Geroch G M Svetlichny



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Wheeler	John A	Fischer	Arthur Elliot	1969	The Theory of Superspace I Statics	R Abraham G Bredon W Browder L Michel P Orlik C Papakrylakopoul os J Stashef N Steenrod R Paiais [grad students] C Fefferman D Graff R Greenberg A Greenspoon H Pittie F Quinn
Wheeler	John A	Gilman	Robert Campbell	1969	A Completely Covariant Integral Theory of Inertia and Gravitation and its Machian Implications	J E Gunn M Kruskal

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Wheeler	John A	Zerilli	Frank J	1969	The Gravitational Field of a Particle Falling in a Schwarzschild Geometry Analyzed in Tensor Harmonics	P Crean
Wheeler	John A	Godfrey	Brendan Berry	1970	A Survey of the Mathematical Properties of Static, Axisymmetric, Vacuum Spacetimes	J York K Kuchař C Misner B Carter R Geroch B Carlson F Goldric J Orens C Rhoades
Wheeler	John A	Christodoulou	Demetrios	1971	Investigations in Gravitational Collapse and the Physics of Black Holes	R Ruffini [collaborator] A Papapetrou D Samaras S Michalopoulos D Wilkinson P Partridge E Wigner V Fitch

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Wheeler	John A	Rhoades	Clifford Edward		1971	Investigations in the Physics of Neutron Stars	R Ruffinl J J Hopfeld F J Dyson [colleagues] S F Fulling F C Weinstein W G Unruh
Wheeler	John A	Unruh	William Geogre		1971	Dirac Particles and Geometricaldynamic Charge in Curved Geometries	J York A Quale C Almgren R Geroch

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Wheeler	John A	Bekenstein	Jacob David	1972	Baryon Number, Entropy, and Black Hole Physics	K Kuchař J Tiomno J York C Misner A Papapetrou [Maryland] [grad students] D Christodoulou M Davis B Mashoon N O'Murchadha L Smarr W Unruh R Wald
Wheeler	John A	Hu	Bei-Lok	1972	Scalar Waves and Tensor Perturbations in the Mixmaster Universe	T Regge [collab. Chap IV] R Ruffini L Parke S Fulling

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Wheeler	John A	Mashoon	Bahram	1972	The Gravitational and Electromagnetic Interactions of a Black Hole	R Ruffini P J E Peebles J York K Kuchař J Bekenstein M Davis L Hughston J G Miller W Stoner C Teitelboim R Wald
Wheeler	John A	Wald	Robert M	1972	Nonspherical Gravitational Collapse and Black Hole Uniqueness	J Cohen [collab sec. §5.2] J Bekenstein B Carter R Geroch K Kuchař B Mashoon J G Miller P J E Peebles R Price J York

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Wheeler	John A	Teitelboim	Claudio	1973	The Hamiltonian Structure of Spacetime	K Kuchař
Wheeler	John A	Ford	Lawrence H	1974	Quantization of A Scalar Field in the Kerr Spacetime	T Boyer N Deruelle S Fulling R Geroch K Kuchař C W Misner L Parker R Ruffini W G Unruh A S Wightman
Wheeler	John A	Kerlich	George David	1975	Spin and Tension in General Relativity Foundations, and Implications for Astrophysics and Cosmology	[colleagues] P van der Hyde J Nester R Geroch L Ford J Stewart A Trautman V Bargmann

Advisor		Student		Year	Dissertation Title	Others Acknowledged
[Mult. advisors]		MacPhail	Malcom Ross	1940	Anomalous Scattering of Fast Neutrons	E P Wigner G P Harnwell J Giarratana
Wheeler	J A					
Ladenburg	R					
[Mult. advisors]		Cohen	Martin Joseph	1951	Cloud and Ion Chamber Observations of Energetic Cosmic Ray Interactions with Matter at Sea Level	D B Davis
Wheeler	J A					
Reynolds	G T					
Sherr	R					
Rau	R R					
[Mult. advisors]		Shanley	Thomas J B	1951	Emission of Low Energy Gamma Radiation in Negative $\mu$ Meson Capture	none
Wheeler	J A					
Reynolds	G T					
Rau	R R					
[Mult. advisors]		Wong	Cheuk-Yin	1966	“Critical Cooking Time” for Superheavy Elements by Fast Neutron Capture According to the Shell Model	C W Wong
Wheeler	J A					
Zamick	L					
Abarbanel	Henry	Auerbach	Steven P	1970	An Elastic Model of the Proton	none
Adler	Steven Louis	Bergmann	Ernest E	1969	Tests for Isotensor Couplings in Electromagnetic Interactions	S B Treiman

	Advisor		Student		Year	Dissertation Title	Others Acknowledged
Adler	Steven Louis	Lee	Shih-Cheng		1980	Color Algebras in Algebraic Chromodynamics	none
Alexander	Henry Richard	Stone	Jack L		1953	A Theoretical Analysis of Acoustic Wave Modes in Layered Liquids	none
Ames	Oakes	Kossler	William J Jr		1964	Nuclear Moments of C11 from the 3P2 and 3P1 Hyperfine Structure	D R Hamilton
Anderson	Philip W	Ma	Ki Bui		1978	Switching, I/f Noise and Two-Electron Centers	R G Palmer
Axtmann	Robert Clark	Hahn	Ottfried Johannes		1964	Measurement of Delayed Neutrons	L A Turner [advisor pro-tem while Axtmann in Israel] S Hunter
Bargmann	Valentine	Carter	David S		1953	Analysis of Scattering Theory for Spherically Symmetric Potentials	G E Latta



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Bargmann	Valentine	Ehrman	Joachim B	1954	The Unitary Irreducible Representations of the Universal Covering Group of the Infinite Desitter Group	H F Bohnenblust G W Mackey A S Wightman E P Wigner
Bargmann	Valentine	Saletan	Eugene J	1960	Contraction of LIE Groups	E P Wigner W T Sharp
Bargmann	Valentine	Prugovečki	Eduard	1965	On the Empirical and Mathematical Foundatons of Quantum Mechanics	none
Bartlett	David Farnham [mentioned 2nd]	Friedberg	Carl E	1969	$n + p \rightarrow d + \gamma$ A Test of Time Reversal Invariance	K Goulianos D Hutchinson I Hammerman S Barsu
Bartlett	David Farnham [mentioned 2nd]	Hammerman	Ira Saul	1969	$N + P \rightarrow D + \pi^0$ A Test of Charge Independence from Threshold Through Resonance Peak	K Goulianos D Hutchinson D Cheng C Friedberg [colleague]

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Bazin	Maurice Jacques	Zacher	A Richard	1968	A Search for the C-Violating Mode $e^+e^- \pi^0$ in the Decay of the ETA Meson	H Blumenfeld A T Goshaw C R Sun T Kitagaki S Kounosu A P Colleraine U Nauenberg A J Smith V S Bearg
Bernstein	Ira Borah	Ahearne	John Francis	1966	On the Kinetic Theory of Plasmas	None
Bershader	Daniel	Allport	John J	1956	Shock Induced Flow in Narrow Ducts	W Bleakney
Blankenbecler	Richard	Cocho-Gil	Germinal	1962	Resonance Model in Nucleon-Antinucleon Annihilation	none
Blankenbecler	Richard	Kreps	Rodney E	1963	Regge Poles in High Energy Photomeson Production	none

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Blankenbecler	Richard	Rubin	Morton Harold	1964	The Analytic Properties of the Scattering Matrix for Non-Relativistic Spin- Dependent Interactions	G Tiktopoulos B F Bayman J Chalifour R Sugar
Blankenbecler	Richard	Sugar	Robert L	1964	Variational Bounds for Multi-Channel Scattering	none
Blankenbecler	Richard	Abarbanel	Henry Don Isaac	1966	Investigations in the Dispersion Theoretic Perturbation Series	F Gilman M L Goldberger

Advisor		Student		Year	Dissertation Title	Others Acknowledged
Blankenbecler	Richard	Roy	Shasanka Mohan	1966	S-Matrix Approach to Strong-Interaction Symmetries	D D Coon [substantial collab] M L Goldberger S B Treiman H Abarbanel C E Jones N Mukunda [colleagues] A Z Capri A Clerk R N Madan J V Noble A P Shukla
Blankenbecler	Richard	Madan	Rabinder Nath	1967	Super Perturbation Theory and Bounds on Electron Hydrogen Scattering	G J Culler [Cal]

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Blankenbecler	Richard	Coon	Darryl D	1967	Internal Symmetries in S-Matrix Theory	R F Sawyer P K Mitter H K Sheppard M L Goldberger C E Jones R L Sugar
Bleakney	Walker	Hipple	John Alfred Jr	1938	A New Mass Spectrometer with Improved Focussing and Its Application to the Study of Ethane	None
Bleakney	Walker	Risser	J R	1938	The Long-Period Radioactivity of Cobalt Induced by Slow Neutrons	L A Turner R Ladenburg L N Ridenour
Bleakney	Walker	Sampson	Milo Boatwick	1938	A Mass Spectrograph Measurement of the Isotopic Abundance in the Elements Ba, Sr, In, Ga, Li, Na, Mn, Ir, Pt, Pd, Rh, and CO	none

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Bleakney	Walker	Sherr	Rubby	1938	The Separation of Isotopes by Diffusion	E U Condon J A Hipple L G Smith N R Trenner
Bleakney	Walker [Princeton University Station]	Cummings	Charles Sumner II	1940	Products of Ionization by Electron Impact in Methyl and Ethyl Alcohol	R Osbourne H Eyring J Beach W Guyer

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Bleakney	Walker [Head Section 2 Structural Defense and Offense Nationa Defense Research Committee]	Reynolds	George T	1943	Studies in the Production, Propagation, and Interactions of Shock Waves I Small Charge Air Blast Experiments [Armor and Ordinance Report NO A-191 II A Preliminary Study of Plane Shock Waves Formed by Bursting Diaphragms in a Tube [Armor and Ordinance Report NO A-192] III Charge Orientation Tests [Armor and Ordinance Report NO A-193]	A H Taub C W Lampson

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Bleakney	Walker	Emrich	Raymond J	1946	Spiral Chronograph for Measurement of Single Millisecond Time Intervals with Microsecond Accuracy	C W Lampson [collaborators] L A Delsasso C H Fletcher C W Curtis J Schenk F J Darago I Shipman	L
Bleakney	Walker	Stoner	Richard G	1947	An Investigation of the Decay of Spherical Shock Waves by Means of Velocity Measurements	A H Taub	
Bleakney	Walker	Fletcher	Charles H	1950	The Mach Reflection of Weak Shock Waves	D Weimer [Shock Wave Laboratory]	
Bleakney	Walker	White	Donald R	1951	An Experimental Survey of the Mach Reflection of Shock Waves	W C Griffith D K Weimer L Christensen	



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Bleakney	Walker	Jahn	Robert G	1955	The Reflection of Shock Waves at a Gaseous Interface	R W Griffith L N Howard D Bershader [grad students] Allport Blackman Christensen Mathews Smith
Bleakney	Walker	Smith	Wesley R	1957	The Mutual Reflection of Two Shock Waves of Arbitrary Strengths	A H Taub V Blackman H Petschek
Bleakney	Walker	Kurzweg	Ulrich H	1961	Magnetohydrodynamic Stability of Curved Viscous Flows	J A Wheeler
Bleakney	Walker	Rockman	Charles M	1961	Electromagnetic Shock Tube Measurements of the Approach to Ionization in Argon, Krypton, and Xenon	none
Bleakney	Walker	Haught	Alan Frederic	1962	Shock Tube Investigation of the Ionization of Cesium Vapor	none

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Bohm	David J	Gross	Eugene P	1949	Theory of Plasma Oscillations	none
Bohm	David J	Pines	David	1951	The Role of Plasma Oscillations in Electron Interactions	none
Bohm	David J	Staver	Tor	1952	The Collective Treatment of Electron and Ion Vibrations	E P Wigner E P Gross D Pines
Bohm	David J	Weinstein	Marvin A	1954	Relativistic Theory of Extended Charged Particles	H Kouts
Bradley	Lee C	Wilets	Lawrence	1952	Isotope Shifts in Erbium	A G Shenstone H N Russell K W Meisner [Purdue] K Murakawa
Brown	Gerald E	Bertsch	George F	1965	Deformations in the Shell Modell with Application to Ca Spectroscopy	L Zamick B F Bayman R N Euwema F Elder

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Brown	Gerald E	Chen	Min-Yi	1968	Nuclear Polarization in Muonic Atoms	A M Green T T S Kuo E Rost
Brown	Gerald E	Mavromatis	H A	1966	Magnetic Moments and Realistic Forces	L Zamick T Kuo C W Wong R J B Stoyale O Ames
Brown	Gerald E	Noble	Julian V	1966	Application of Multiparticle Collision Theory to the Study of Direct Nuclear Reactions	E Rost L Castillejo P M Fishbane J L Rosner G Tiktopoulos S M Roy
Brown	Gerald E	Roeder	John Louis	1966	Coupled Channels and Their Application to Resonances in the Scattering of Low-Energy Neutrons by Carbon 12	L Castillejo E Rost L Zamick R Sherr

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Brown	Gerald E	Gerace	William J	1967	Deformations in the Calcium Region	A M Green T T S Kuo G F Bertsh [grad students] A Shukla R Haight R L Jaffe
Brown	Gerald E	Shukla	Agam Prakash	1967	Core Polarization Effects in Mass 15 and Mass 17	T T S Kuo G Bertsch A M Green W Gerace
Brown	William F	Woodward	William M	1943	Magnetization and Reversible Susceptibility in Single Crystals of Nickel	J L Fowler R P Feynman V Bargmann
Calaprice	Frank Paul	Mead	William Charles	1974	The Beta Assymetry of Argon-35 and the Deduced Value of the Vector Coupling Constant	H Vantine S Freedman G Garvey J Hichs
Calaprice	Frank Paul	Vantine	Harry C	1974	Second Class Currents in the Beta Decay of Neon – 19	S Freedman W C Head

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Calaprice	Frank Paul	Baltrusaitis	Rose Mary	1977	New Test of Time-Reversal Invariance in $^{19}\text{Ne}$ Beta Decay	S Freedman L Varga B Gibbs
Callan	Curtis Gove	Caswell	William E	1975	Calculation of Callan-Symanzik Equation Parameters Using Dimensional Regularization	[colleagues] R Schrock F Wilczek A Zee
Callan	Curtis Gove	Mtingwa	Sekazi Kause	1976	Asymtotic Chiral Invariance and Its Consequences	A Zee F Wilczek D Soper P Surko F Shoemaker H A Neal [Indiana]
Callan	Curtis Gove Jr	Trudon	Thomas N	1976	Quantum Solitons in Two Dimensional Field Theory	W Caswell E H Monsay M Moshir
Callan	Curtis Gove Jr	Moshir	Mehrdad	1977	Interaction of Leptons and Magnetic Monopoles	none

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Callan	Curtis Gove Jr	Crutchfield	William Yale II	1978	A Modified Borel Summation	J Zinn-Justin A Sokal J Collins B Simon
Callan	Curtis Gove Jr	de Carvalho	Carlos Aragão	1980	Instantons and Fermion Densitite	C Bachas V Baluni C Besson R Dashen D Gross R Pisarski L Yaffe
Carver	Thomas Ripley	Pressley	Robert Joseph	1962	Interactions of Electrons and Nuclei in Lithium Metal	N S VanderVen H Berk C Varnum J Brault

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Carver	Thomas Ripley	Gamblin	Roger Lotis	1965	Polarization and Relaxation Processes in Helium3 Gas	T McIlrath R Lewis W Happer R Sugar A Firester S Sachs L Sutton D Hegyi
Carver	Thomas Ripley	Lewis	Richard Boyd	1965	Observation of Transmission Electron Spin Resonance in Metals	grad students] T McIlrath R Gamblin A Firester G Ruff H Berk B Varga
Carver	Thomas Ripley	McIlrath	Thomas James	1966	Optical Pumping in Atomic Hydrogen	[grad students] A Firester R Gamblin R Lewis G Ruff J Stoner S Jasperson H Olsen

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Carver	Thomas Ripley	Firester	Arthur H	1967	Intensity Modulation of Transmitted Light at the Ground State Hyperfine Frequency of K39	T J McIlrath G Ruff
Carver	Thomas Ripley	Ruff	Geogre A	1967	Spin Exchange and Light Modulation in Optically Pumped Sodium	[grad students] A H Firester T J McIlrath C A Zanoni
Carver	Thomas Ripley	Alexandrakis	George C	1968	Microwave Magnetic Resonance Transmission in Gadolinium	E M Rodgers P A Fedders R B Lewis G H McCall
Carver	Thomas Ripley	McCall	Gene H	1968	Discharge Polarization of He3 Gas	A H Firester P A Feddaers



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Carver	Thomas Ripley	Sari	Seppo O	1971	Landau Levels at a “Saddle-Point” in InSb	S E Schnatterly J J Hopfield J Dow R Palmer A Callender D Manikopoulos M Miller J Fields P Gibbons
Carver	Thomas Ripley	Junck	Roger Nicholas	1973	Temperture and Pressure Dependent Equation of State for High Purity Polymethylmethacrylate	S E Schnatterly [AFWL] Albuquerque] Col D R Jones (Ret.) Col D L Lamberson [USAF] J R Asay A H Guenther D A Benson D A Ponton

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Carver	Thomas Ripley	Manikopoulos	Constantine N	1973	Microwave Transmission through Metallic Ferromagnets	J Dow S Schnatterly [co-workers] G C Alexandrakis P Sheng E Hannah B Moore T Witten P Gibbons A Calendar R Palmer S Sari M Miller P Colter P Nanos J Cohen J Crawford
Carver	Thomas Ripley	Maynard	Julian D Jr	1974	An Attempt to Image and Photograph an Array of Quantized Vortex Lines in Rotating and Superfluid Helium	S Schnatterly J Hopfield [grad students] M Miller J Ritsko

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Carver	Thomas Ripley	Cohen	J David	1976	A New Measurement of the Critical Exponent Beta in Nickel	S E Schnatterly P C Gibbons A S Blaer D Jensen M Kreisler F P Calaprice S D Tremaine
Carver	Thomas Ripley	Julien	Paul Charles	1977	Light Scattering from Liquid Helium Droplets	S Schnatterly K DeConde [grad students] J Maynard J Griffin F Ferrone A Chang S Girvin T Fansler D Cohen C Franck F Chambers B Yao

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Carver	Thomas Ripley	Chambers	Frank Anthony	1978	An Apparatus for the Study of Transmission Electron Spin Resonances at Ultra High Frequencies	S Schnatterly P Gibbons R Palmer F Ferrone P Julien S Girvin L Fleishman W Yao
Carver	Thomas Ripley	Fansler	Todd David	1978	Spin Echoes in a Flowing Superfluid Helium-3 – Helium-4 Solution	P Gibbons B Moore [grad students] F Ferrone P Julien F Chambers [U S Army Ballistics Lab] R Varney L Colonna- Romano D Crosley B Laurie

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Chen	Kao-Wei Wendell	Aronson	Samuel H	1968	Measurement of the Energy Dependence of the Form Factor in $K^0_L \rightarrow$ $\pi^+ + e^- + \nu$ Decay	[collaborators] R C Catura H H Chen E S Miller M G White F C Shoemaker J W Cronin T T Wu E S Ginsburg
Chen	Kao-Wei Wendell	Crean	Peter Aidan	1970	An Experimental Study of Low Energy Pion-Nucleon Charge-Exchange Scattering and Threshold Neutral Pion Production	M G Hauser J Dakin J Cronin M Buttram R Mischke M Kreisler
Cook	LeRoy Franklin	Morrow	Richard	1963	An Investigation of the Analytic Properties of the Five Point Function in Perturbation Theory	none
Cronin	James Watson	Christenson	James H	1964	Regeneration of $K^0$ Mesons and the $K^0$ - $K^0$ Mass Difference	V L Fitch R Turlay A Clark

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Cronin	James Watson	Roth	Richard F	1964	A Measurement of Proton-Proton Polarization and Triple Scattering Parameters D, R, A, and A'	[collaborators] E Engels S C Wright [Chicago] L J Pondrom [Columbia] [Wright's students] P Kloeppel R Handler J Christenson P Kirk W Vernon G T Reynolds H L Anderson
Cronin	James Watson	Clark	Alan R	1964	A Study of Di-Pion Resonances Produced at Low Momemtum Transfer in $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 1.6 BeV/c	R Turlay J Elms J H Christenson

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Cronin	James Watson	Kunz	Paul F	1968	Measurement of the $KL^0 \rightarrow \gamma \gamma$ Branching Ratio	[collaborators] W Risk P Wheeler J Pilcher S Nussinov H Chen
Cronin	James Watson [also identified as collaborator]	Wheeler	Paul C	1968	An Experimental Study of the $\pi^0 \pi^0$ Decay of the Long-Lived Neutral K- Meson	[collaborators] P F Kunz W S Risk M Shochet B Knapp J Liu J Pilcher
Cronin	James Watson [also identified as collaborator]	Liu	John K	1969	Measurement of the CP- Violation Paramether $ \eta^{00} $ in $KL \rightarrow 2 \pi^0$ Decay	[collaborators] M Banner J E Pilcher P Wheeler P Kunz W Risk B Knapp M Shochet A Nathan

	Advisor		Student	Year	Dissertation Title	Others Acknowledged	
Cronin	James Watson [also identified as collaborator]	Pilcher	James E	1969	Experimental Study of Some Radiative Decay Modes of the KL and KS Mesons	J Liu M Banner W Karp A David K Fujikawa A Nathan B Knapp M Shochet	
Cronin	James Watson	Knapp	Bruce Chapman	1972	An Experimental Measurement of the CP Violation Parameter $\eta^{00}$ / $\eta^{+-}$ in $K^0 \rightarrow 2\pi$ Decays	[collaborators] M Banner C Hoffman M Schochet P Surko J Liu J Pilcher E Synder W Karp F Schwarz H Edwards K Fujikawa A Nathan M Sekely Sanders C Bopp	H



	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Daniels	William B	Crawford	Roy Kent	1968	Experimental Determination of the Thermodynamic Functions of Argon at High Pressures in the Fluid Phase and along the Melting Curve in the Solid Phase	none
Dashen	Roger F	Lee	Shun-Yi	1969	On the Existence of the Covariant T-Product of Currents and on the Fixed J-Poles in Photoproduction Processes	M L Goldberger
Dashen	Roger F	Nohl	Craig Reiss	1976	Semiclassical Quantization of the Nonlinear Schroedinger Equation	none

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Dashen	Roger F	Levine	Herbert	1979	Higher Order Effects in Semi-Classical Quantum Chromodynamics	D Gross C Callan A Jevicki L Yaffe [grad students] D Laughton D Kessler N Andrei
Dawson	John M	Birmingham	Thomas Joseph	1965	Radiation by a Plasma: Quadrupole Bremsstrahlung and Synchrotron Emission	R Kulsrud J L Johnson C R Oberman
Dawson	John M	Kruer	William L	1969	Some Investigations of Wave-Particle Interactions	C Oberman P Rutherford D Shanny R N Sudan F L Hinton A Rogister N Windor G Bateman

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Devlin	Thomas J [20 Nov 2007 P Boynton]	Boynton	Paul Edward	1967	Double Charge Exchange Scattering of Positive $\pi$ Mesons of Complex Nuclei	J A Wheeler	
Devlin	Thomas J	Miller	Edward S	1967	An Experimental Study of $\pi^-$ – Nucleus Scattering from 0.6 to 1.6 BEV	J Solomon G White G Bertsch P Boynton R Haight W Smith H Ohanian B Casserberg A Dicke J Cherlow A D Franklin R L Imlay	M
Dicke	Robert H	Pond	T Alexander	1953	An Experimental Investigation of Positronium	Deutsh Cowie Reiman	

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Dicke	Robert H	Hawkins	William Bruce	1954	The Orientation and Alignment of Sodium Atoms by Means of Polarized Resonance Radiation	D R Hamilton
Dicke	Robert H	Newell	George S Stribling JR	1954	A Method for Reducing the Doppler Width of Microwave Spectrum Lines	[grad students] J Wittke R Petti
Dicke	Robert H	Romer	Robert H	1955	A Method for the Reduction of the Doppler Width of Microwave Spectral Lines	none
Dicke	Robert H	Wittke	James P	1955	A Redetermination of the Hyperfine Splitting in the Ground State of Atomic Hydrogen	none

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Dicke	Robert H	Bender	Peter L	1956	The Effect of a Buffer Gas on the Optical Orientation Process in Sodium Vapor	D R Hamilton W B Hawkins H McKean C J Gorter M J Steenland [U Leiden] W Feller W W Boone [both of Inst. Adv. Study]
Dicke	Robert H	Sherman	Christopher	1956	Nuclear Induction with Seperate Regions of Excitation and Detection	none
Dicke	Robert H	White	Lowell D	1956	The Gyromagnetic Ratio of the Electron in the Metastable State of Hydrogen	C Sherman E B D Lambe
Dicke	Robert H	Lambe	Edward B D	1960	A Measurement of the g- Value of the Electron in the Ground State of the Hydrogen Atom	none

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Dicke	Robert H	Brans	Carl H	1961	Machs Principle and a Varying Gravitational Constant	C W Misner
Dicke	Robert H	Brault	James W	1962	The Gravitational Red Shift in the Solar Spectrum	A G Shenstone M Schwarzschild R Danielson
Dicke	Robert H	Hoffman	William F	1962	A Pendulum Gravimeter for Measurement of Periodic Annual Variations in the Gravitational Constant	none
Dicke	Robert H	Peebles	Philip J E	1962	Observational Tests and Theoretical Problems Relating to the Conjecture that the Strength of the Electromagnetic Interaction may be Variable	J A Wheeler

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Dicke	Robert H	Turner	Kenneth Clyde	1962	A New Experimental Limit on the Velocity Dependent Interaction Between Natural Clocks and Distant Matter	H A Hill B Goldstein
Dicke	Robert H	Faller	James E	1963	An Absolute Interferometric Determination of the Acceleration of Gravity	A G Shenstone J Brault D Curott B Hildreth R Moore J Morgan A Pease R Pollock F Wong
Dicke	Robert H	Callan	Curtis G Jr	1964	Spherically Symmetric Cosmological Models	J A Wheeler S B Treiman A S Goldhaber K Thorne

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Dicke	Robert H	Hildreth	William W	1964	The Interaction of Scalar Gravitational Waves with the Schwarzschild Metric	P J Peebles [asst w/ Sec. II] C W Misner D C Morton G B Field B Block R Weiss D T Wilkinson H F Trotter P G Roll
Dicke	Robert H	Morgan	W Jason	1964	An Astronomical and Geophysical Search for Scalar Gravitational Waves	D Currott P Roll P J E Peebles H H Hess
Dicke	Robert H	Stoner	John O JR	1964	Production of Narrow Balmer Spectrum Lines in an Electron-Bombarded Atomic Hydrogen Beam	G Donner P Hocker
Dicke	Robert H	Currott	David R	1965	A Pendulum Gravimeter for Precision Detection of Scalar Gravitational Radiation	J Peebles P Roll D Wikinson



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Dicke	Robert H	Kreuzer	Lloyd	1966	The Equivalence of Active and Passive Gravitational Mass	B Block R Weiss D Curott D Wilkinson J Peebles P Roll
Dicke	Robert H	Moore	Robert D	1966	A Study of Low Frequency Earth Noise and a New Upper Limit to the Intensity of Scalar Graviational Waves	J Weber [Maryland] B Block [UCSD] H W Schramp Jr [Maryland] W H Munk [UCSD]
Dicke	Robert H	Hegyí	Dennis J	1968	The Primordial Helium Abundance as Determined from the Binary Star System $\mu$ -Cassiopeiae	[collaborator] D R Curott P J E Peebles D T Wilkinson
Dicke	Robert H	McDonald	Bryant Edward	1970	Meridian Circulation in Rotating Stars	P J E Peebles

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Dicke	Robert H	Wickes	William Castles	1972	Primordial Helium Abundance and Population II Binary Stars: A New Measurement Technique	P Boynton [supervised 1st year of dissertation] J Peebles M Hauser D Wilkinson D Groth [grad students] M Nelson M Davis K Davis P Henry
Dow	John Davis	Lao	Binneg Yangbing	1971	On the Optical and Dielectrical Properties of Solids	S E Schnatterly J J Hopfield T R Carver T C McGill [grad students] P Sheng F C Weinstein

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Dow	John Davis	Sheng	Ping	1971	Research in the Theory of Condensed Matter: Polaron Theory, Transmission Resonance, Liquid Crystals	F C Weinstein B Y Lao T R Carver C N Manicopoulos J J Hopfield A S Wightman T McGill
Dow	John Davis	Weinstein	Frank Charles	1971	Optical Properties of Solids: Electoreflectivity, Surface States, Photoemission	[office mates] B Y Lao P Sheng [grad students] F Goldrich S Fulling J Friedman J J Hopfield S E Schnatterly T C McGill T R Carver
Engelsberg	Stanley Jay	Suna	Andris	1963	A Many-Body Approach to the Treatment of Tightly Bound Excitons Interacting with Phonons	J A Wheeler R E Merrifield [DuPont]

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Engelsberg	Stanley Jay	Varga	Bendequs Bela	1966	One Dimensional Electron-Phonon Models	C Bloch J J Hopfield J R Schrieffer G D Whitfield
Feller	William	Schay	Géza Jr	1961	Equations of Diffusion in the Special Theory of Relativity	V Bargmann
Fitch	Val Logsdon	Motley	Robert W	1959	Lifetime of K+ Mesons	G T Reynolds [Brookhaven] G B Collins G Harris R Madey W Moore [Columbia] J Rainwater
Fitch	Val Logsdon	Perkins	Roger Bruce	1960	Polarization of Mu-Mesons from K-Meson Decay	W Chestnut
Fitch	Val Logsdon	Meyer	Stuart Lloyd	1962	Particle Production at High Energies	P A Piroue H C Wilkins C A Quarles K Green

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Fitch	Val Logsdon	Condon	Paul E	1963	Angular Distribution of the Products of the $K^0$ Mesonic Decay	S Meyer H Wilkins S Wolff J Mitchell
Fitch	Val Logsdon	Quarles	Carroll A Jr	1964	A Study of the $K^0$ Lifetime and the Longitudinal Polarization of the Muon in $K^0 \rightarrow \mu^+ \nu$ and $K^0 \rightarrow \mu^- \bar{\nu}$ Decay	H Wilkins R Carnegie R Blankenbecler D Wiley
Fitch	Val Logsdon	Cassel	David G	1965	Experimental Measurement of the Electromagnetic Form Factor of the Negative $\pi^-$ Meson	S Hummel W Bell E Card M Barton R Crittendon L Leipuner

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Fitch	Val Logsdon	Russ	James S	1966	Observation of Interference Between $\pi^+$ $\pi^-$ Amplitudes from KL Decay and Coherent Regeneration	[collaborator] W Vernon J Cronin R Turlay D Cassel D Bartlett D Hutchinson K Peterson B Bowman
Fitch	Val Logsdon	Vernon	Wayne	1966	Experimental Properties of the $\pi^+ \pi^-$ CP-Violation Decay of the Long-Lived Neutral K-Meson	[collaborators] J Russ R Roth J Cronin R Turlay D Cassel D Bartlett D Hutchinson

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Fitch	Val Logsdon	Kamae	Tuneyoshi	1968	Study of the Decay $K^0_2 \rightarrow 2\pi^0$	D F Bartlett K Goulianos D P Hutchinson R F Roth W Vernon R K Carnegie J Russ
Fitch	Val Logsdon [also listed as collaborator]	Carnegie	Robert K	1968	A Measurement of the $K^{10} - K^{20}$ Mass Difference	T Kamae R Roth J Russ W Vernon D Bartlett K Goulianos D Hutchinson
Fitch	Val Logsdon [also listed as collaborator]	Strovink	Mark W	1970	CP Violation and Regenerated $K^0_{e3}$ Decay	R Carnegie R Cester L Sulak
Fitch	Val Logsdon [also listed as collaborator]	Sulak	Lawrence R	1970	A Precise Measurement of the $K^{\circ 1} - K^{\circ 2}$ Mass Difference	R Carnegie R C Regge M Strovink

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Fitch	Val Logsdon [also listed as collaborator]	Webb	Robert Carroll	1972	Measurement of the Charge Asymmetry in $K^0_L$ $\rightarrow \pi^\pm e^\pm \nu$ Decays	V Hepp D Jensen M Strovink M Bearg A David [grad students] Y Fukushima R M Baltrusaitis
Fitch	Val Logsdon	Kadel	Richard W	1977	Search for Charm in Pion and Anti-Proton Interactions Near Threshold	R Regge M Witherell R Webb M May [grad student] J Whitaker V Bearg M Isailia A David



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Fitch	Val Logsdon	Whittaker	John D	1978	Charge Conjugation Symmetry in Proton- Antiproton Interactions at 5.4 GeV CMS Energy	M Witherell R Webb R Regge M May R Kadel V Bearg M Isailas A David C Bopp
Franklin	A D [identified as advisor but listed third in acknowledge ments]	Imlay	Richard L	1967	Energy Dependence of the Form Factor in K+e3 Decay	G K O'Neill A K Mann D R Bowen P T Eschstruth E B Hughes E S Miller W K McFarlane D H Reading
Freiman	Edward Allan	Mjolsness	R C	1963	A Study of the Stability of a Relativistic Particle Beam Passing Through a Plasma	C L Longmire J Enoch W B Reisenfeld D A Baker

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Freiman	Edward Allan	Book		David L	1964	Multiple Time Scale Approach to the Derivation of Quantum Mechanical Kinetic Equations	I B Bernstein H Berk F Shure A Ron

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Freiman	Edward Allan	Fante	Ronald L	1964	Volume I: A New Solution of the Kinetic Equations for a Plasma Including Radiation Volume II: A Calculation of the Radiation Scattered by a Plasma	A Kaufman T Northrop G Warfield
Freiman	Edward Allan	Bodner	Stephen E	1965	The Quasi-Linear Theory of Electrostatic Instabilities	W Heckrotte W Newcombe [Lawrence Radiation Lab]
Freiman	Edward Allan	Davidson	Ronald C	1966	Weak Turbulence in a Homogeneous Plasma	P Rutherford J Greene
Freiman	Edward Allan	Tappert	Frederick	1967	Kinetic Theory of the Classical Equilibrium Plasma Medium	none
Fulbright	Harry Wilks	Bush	Robert R	1949	The Inelastic Scattering of Protons from Light Nuclei	J A Wheeler M G White R Sherr P C Gugelot

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Fulbright	Harry Wilks	Milton	J C D	1952	The Determination of Forbidden Beta-Spectra by Means of a High-Pressure Proportion Countere	P C Gugelot D R Hamilton A S Wightman
Garvey	Gerald T	Crawley	Gerald M	1965	Inelastic Proton Scattering in the 2s1d Shell	R Sherr E Rost B Gerace B Plauger [grad students] C Glashausser J Nolen C Whitten
Garvey	Gerald T	Miller	Peter S	1969	Proton Decay of Isobaric Analogue States from the [p, n] Reaction in Nuclei with A = 67 to 125.	R Sherr W Friedman C Harrison A Emman S Goldman W Daehnick J McGruer
Garvey	Gerald T	Ingalls	Paul D	1971	Charge Asymmetry in Transfer Reactions	E G Adelberger

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Garvey	Gerald T	Debevec	Paul Timothy	1972	Two Nucleon Transfer Investigation of the Structure of Calcium	none
Garvey	Gerald T	Cecil	Francis Edward	1973	A Search for Giant Magnetic Dipole States in $^{90}\text{Zr}$ and $^{208}\text{Pb}$	W Braithwaite J Comfort P Debevec
Garvey	Gerald T	Tribble	Robert Edmond	1973	Induced Weak Currents as Determined by Beta-Alpha Angular Correlations in Mass 8	D Alburger [Brookhaven]
Garvey	Gerald T	Nathan	Alan Marc	1975	A Measurement of the Radiative Widths of the 16.6 – 16.9 MeV Doublet in Be	F P Calaprice D Durazo
Garvey	Gerald T	Lind	Jerol Michael	1976	Isospin in the $1+$ Doublet in $^{12}\text{C}$	none
Garvey	Gerald T	Bowles	Thomas Joseph	1978	Isovector Radiative Decays of the 16.6-16.9 MeV Doublet in $^8\text{Be}$	A Nathan F Calaprice J Monohan

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Garvey	Gerald T	McKeon	Robert D	1979	A Detailed Study of Beta- Alpha Correlations in Mass 8	B R Holstein [Argonne NLab] W Evans J Worhtington G Thomas F Karasek
Goldberger	Marvin L	Federbush	Paul Gerard	1959	A Study of the Electromagnetic Properties of Nucleons Using Dispersion Techniques	S B Treiman
Goldberger	Marvin L	Grisaru	Marcus T	1959	Nucleon-Nucleon Dispersion Relations and the Two Body Potential	R Oehme
Goldberger	Marvin L	Belinfante	John G	1961	The Effect of the Nucleon- Antinucleon Intermediate State on P-Wave Pion- Pion Scattering Resonances	none
Goldberger	Marvin L	Benoit	John William	1961	Selected Topics in the Interaction of Spin Zero Bosons with the Electromagnetic Field	R Blankenbecler

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Goldberger	Marvin L	Fredkin	Donald R	1961	Electron Tunneling in Semi-Conductor Junctions	G H Wannier E Blount M Lax
Goldberger	Marvin L	Holliday	Dennis	1961	Nucleon Compton Scattering	none
Goldberger	Marvin L	Gross	Franz L	1963	A Relativistic Calculation of the Deuteron Electromagnetic Form Factor	R Blankenbecler L F Cook S B Treiman J Paton [colleagues] J B Bronzman P Kantor R Kreps M Rubin R Sugar
Goldberger	Marvin L	Renninger	George Hill	1963	The Method of Complex Angular Momentum Applied to the Multichannel Model	E P Wigner H Fengler R Blankenbecler M Froissart Y S Kim
Goldberger	Marvin L	White	Roscoe B	1963	The Goldberger, Gell-Mann Model	none

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Goldberger	Marvin L	Kubis	Joseph J	1964	High Energy Behavior of the Scattering Amplitude for Crossed-Box Ladder Graphs in the Bethe-Salpeter Equation	none
Goldberger	Marvin L	Sullivan	Jerimiah David	1964	The Vacuum Regge Trajectory in the Scalar-Vector Field Theory	E F Low R Dolen F Gilman
Goldberger	Marvin L	Berger	Edmond Louis	1965	The Deuteron and Bound States of the Nucleon-Antinucleon System	R Blankenbecler D Jones
Goldberger	Marvin L	Wiley	David Stewart	1966	S-Matrix Description of the Decay of Unstable States	none
Goldberger	Marvin L	Domash	Lawrence H	1967	Eikonal Approximation for Bethe-Salpeter Equation	none



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Goldberger	Marvin L	Cantrell	C D III	1968	On the Physical Information Available from Intensity Correlation Experiments on Singly Scattered Light	J J Hopfield V Bargmann T R Carver A Jaffe B B Varga M B Einhorn R L Kelly V Korenman J R Klauder A A Maradudin
Goldberger	Marvin L	Einhorn	Martin B	1968	Convergence of Electromagnetic Form Factors	V Fitch D Grossman H Picker G Tiktopoulos I Kalet
Goldberger	Marvin L	Fishbane	Paul M	1968	Electromagnetic Self- Energies	S B Treiman R Blankenbecler [grad students] L Schulman J Noble L Domash

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Goldberger	Marvin L	Kalet	Ira J	1968	Low Energy Theorems for Meson Production by Real and Virtual Photons	M Einhorn A Clark
Goldberger	Marvin L	Saxton	Owen Henry Nevett	1974	Regge Trajectories in the Amati-Bertocchi-Fubini-Stanghelleni-Tonin Multiperipheral Model	L Saunderson C-I Tan
Goulanos	Konstantin	Goldhagen	Paul Eugene	1973	A Measurement of the Angular Distribution of Inverse Photodisintegration of the Deuteron as a Test of Time-Reversal Invariance	D Bartlett C Friedberg
Griffith	Wayland Coleman	Blackman	Vernon H	1956	Vibrational Relaxation in Oxygen and Nitrogen	W Bleakney
Gross	David J	Calvo	Miguel	1974	Some Experimental Consequences of Asymptotically Free Field Theories	S B Treiman C Callan [grad students] R Schrock M Sawyer

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Gross	David J [Section I in collaboration with him]	Wilcek	Frank Anthony	1974	Non-Abelian Gauge Theories and Asymptotic Freedom	none
Gross	David J	Schonfeld	Jonathan Furth	1975	Perturbative Analysis of a Model of Symmetry- Breaking in a Two- Dimensional Space-time	W E Caswell R E Schrock
Gross	David J	Witten	Edward	1976	Some Problems in the Short Distance Analysis of Gauge Theories	R L Leaf N Vasanti
Gross	David J	Libby	Stephen Bernard	1977	Derivation of Soliton Quantization in Gauge Theories	A Zee
Gross	David J	Gottlieb	Steven Arthur	1978	A New Twist in Deep Inelastic Scattering	A Blaer
Gross	David J	Andrei	Nathan	1979	The Effects of Instantons in Hadronic Processes	D Toussaint L Yaffe

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Gugelot	Piet Cornelis	Reynolds	Junius B	1955	Angular Distribution of Deuterons Resulting from Bombardment of Light Elements with 18 Mev Protons	A S Wightman J Cook
Haag	Rudolf	Araki	Huzihiro	1960	Hamiltonian Formalism and the Canonical Commutation Relations in Quantum Field Theory	A S Wightman J Cook
Hamilton	Donald Ross	Gross	Leonard	1950	A New Electrostatic Beta Ray Spectrograph and Its Application to the Study of Sulfur 35	R H Dicke H W Fulbright R Sherr M G White L Harris C Grove
Hamilton	Donald Ross	Ridgway	Stuart L	1952	An Experimental Study of Beta-Gamma Angular Correlation	R Sherr

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Hamilton	Donald Ross	Alford	W Parker	1954	The Nuclear Recoil Spectrum in Beta Decay of Ne19; The Electron-Neutrino Angular Correlation, and the Nature of the Beta Interaction	R Sherr F C Shoemaker M G While G Schrank A S Wightman
Hamilton	Donald Ross	Daubin	Scott C	1955	The Perturbed Gamma-Gamma Directional Correlation of Cd <sup>114</sup>	W F Hornyak R A Naumann B Bamman J W McClain W D Slawson
Hamilton	Donald Ross	Lemonick	Aaron	1955	Atomic Beam Measurement of the of the Spin of Ag <sup>111</sup>	F C Shoemaker [grad students] R D Petti R L Christensen R L de Zafra
Hamilton	Donald Ross	Pipkin	Francis M	1955	Atomic Beam Measurement of the Spin of Cu <sup>64</sup>	F C Shoemaker [grad students] R D Petti R L Christensen R L de Zafra

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Hamilton	Donald Ross	Hack	Melvin N	1956	Intensities of Resonance Transitions Between Hyperfine Levels	J B Reynolds H H Stroke
Hamilton	Donald Ross	Christensen	Robert L	1958	Measurement of the Spin of Arsenic <sup>76</sup> by the Atomic Beam Method	A Lemonick F M Pipkin J B Reynolds H H Stroke H B Bennewitz
Hamilton	Donald Ross	Hooke	William M	1958	The Spin and Hyperfine Splitting of Au <sup>194</sup>	J B Reynolds H G Bennewitz R L Christensen H H Stroke D Brill L Jordan M Posner J L Snider
Hamilton	Donald Ross	McClain	John W	1958	Gamma-Gamma Angular Correlation in Cd <sup>110</sup>	R A Naumann B Bamman
Hamilton	Donald Ross	Snider	Joseph L	1961	Measurement of the Nuclear Spin of C <sup>11</sup> by the Atomic Beam Method	H Haberstroh M Posner Bernstein

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Hamilton	Donald Ross	Walker	James C	1961	Measurements of the Spins of Tm166 and Tm <sup>167</sup> and the Hyperfine Structure of Tm166 by the Atomic Beam Magnetic Resonance Method	O Ames A M Bernstein M L Brennan D Harris
Hamilton	Donald Ross	Posner	Martin	1961	Measurement of the Spin of Nitrogen-13 by Atomic Beam Methods	A Bernstein R A Haberstroh
Hamilton	Donald Ross	Haberstroh	Robert A	1963	The Nuclear Moments of N <sup>13</sup> and C <sup>11</sup>	O Ames W J Kossleer W H Hunt E Brower L B Harris A T Emann A S Lewallen
Harnwell	Gaylord Probasco	Kuper	James Brown Horner	1938	The Scattering of Fast Electrons in Gases	none

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Hill	Henry Allen	Haase	Ernst L	1962	$\beta - \gamma$ Circular-Polarization Measurements of Sc <sup>46</sup> and Fe <sup>59</sup>	R Sherr I Talmi H R Lewis R E Pollock D B Knudsen
Hill	Henry Allen	Zanoni	Carl A	1967	Developments of Daytime Astronomy to Measure the Gravitational Deflection of Light	R H Dicke G R Hostetter
Hinnov	Einar	Johnson	Larry C	1966	Excitation of Neutral Helium in Non-LTE Discharges	P G Burke
Hofstadter	Robert	Herman	Robert C	1940	On the Infrared Absorption of Light and Heavy Fatty Acid Vapors, Phenol and Aniline with Special Regard to the Problem of Association	J A Wheeler E P Wigner E J Jones J M Delfosse W Guyer E Teller H Eyring E R Caley [Chemistry]



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Hofstadter	Robert	Yamakawa	Kazuo Alan	1949	Silver Bromide Crystal Counters	M White G T Reynolds R Dicke
Hofstadter	Robert	Bube	Richard H	1950	Luminescence and Trapping in Zinc-Sulphide-Type Phosphors	H W Leveren R E Shrader P R Gelmer I J Hegyl S Larach D O North V A Petrille S M Thomson
Hofstadter	Robert	McIntyre	John Armin	1950	Compton Scattering at 1.25 MEV	F B Harrison L H Hammer H E Schrader C W Hubbell
Hopfield	John J	Allotey	Francie K A	1966	The Effect of Electron-Hole Scattering Resonance on X-Ray Emission Spectrum	none

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Hopfield	John J	Grobman	Warren David	1967	Conduction Electron Exchange and the Psuedopotential Form Factors in the Alkalis	T Carver S Schnatterly P Fedders
Hopfield	John J	Faulkner	Roger A Jr	1968	Isoelectronic Impurities in Semiconductors	D G Thomas [Bell Labs]
Hopfield	John J	Freeman	Smith	1969	Exciton-Magnon Interraction in Antiferromagnetic Insulators	D S McClure R S Meltzer M Lowe-Pariseau M Y Chen
Hopfield	John J	Graber	Michael Adam	1970	Optical Absorption of the Alkali Halides in the Extreme Ultraviolet Region	J Dow S Schnatterly T Carver
Hopfield	John J	Sutton	Leon	1970	Many-Body Theory of Photoemission	W E Spicer [Bell Labs] S Doniach N V Smith

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Hopfield	John J	Treu	Jesse Isiah	1973	Magnetic Circular Dichroism in Hemoglobin	S E Schnatterly [Bell Labs] R G Shulman S Ogawa C Costello S Simon [Stony Brook]
Hopfield	John J	Hingerty	Brian E	1974	Crystallographic and Conformational Studies in Some Nucleic Acid Components of Biological Importance; Guanylyl – 3', 5' Cytidine Monophosphate [GpC] and C2' – O – Methyl Cytidine [OMC]	D E Appleman [Geoscience] [Biochemical Sciences] P J Bond S B Broyde R Langridge R M Lesk T Sato S D Stellman E Subramanian W R Massey

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Hopfield	John J	Girvin	Steven M	1977	Topics in Condensed Matter Physics: The Role of Exchange in the Lithium K Edge and the Fluorescence Spectrum of Heavily Doped Cadmium Suphide	S E Schnatterly A Blaer [grad students] D Cohen S Tremaine E Marmar M Moshir F Chambers M Seldner P Julien L Fleishman C Franck S Slusky
Hopfield	John J	Sejnowski	Terrence Joseph	1978	A Stochastic Model of Nonlinearly Interacting Neurons	D Bender A Gelperin C Gross B Knight Jr M Lampert J A Wheeler

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Hopfield	John J	Cho	Wilson Kar Cheong	1978	Flash Photolysis Studies on Mixed State Hemoglobing, Molecular Mechanism of Hemoglobin Cooperativity	F Ferrone M Potasek R Olson [Bell Labs] T Yamane M Castillo
Jensen	Douglas A	Fukushima	Yasutaka	1976	Measurement of the $KL^\circ$ $\rightarrow \mu^+\mu^-$ Decay Rate	M N Kreisler [colleages] P Surko J Thaler [grad student] A Lopez [U Mass] K Wright V Bearg A David M Isaila A Blair

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Johnson	John	Winsor	Niels Karl	1969	A Numerical Model for a Low-Pressure Plasma in a Toroidal Magnetic Field	T Dawson J Greene G Bateman Jr D Dobrott B Kruer K V Roberts P Rutherford C Smith S-T Tsai K Viswanathan H Wobig
Kreisler	Michael Norman	Davis	Michael Bruce	1972	Neutron Proton Charge Exchange Scattering from 8 to 29 GeV / C	Longo [Michigan] D O'Brien T McCorriston B Gibbard T Dobrowolski T Toohig

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Kruskal	Martin David	Orszag	Steven A	1966	Theory of Turbulence	C Oberman S Chandrasekhar R M Kulsrud M Scharzchild C C Lin W V R Malkus
Kruskal	Martin David	Ramani	Alfred	1979	On a Conjecture Relating the Inverse Scattering Method to Painleve-Type Equations	M J Ablowitz H Segur E Lieb C Callan
Ladenburg	Rudolf Walter	Kanner	Morton H	1940	Some Experiments on the Fission of Uranium and Thorium	J A Wheeler N Bohr H H Barschall C C Van Voorhis L A Turner L A Delsasso
Ladenburg	Rudolf Walter	Barschall	H H	1941	On the Angular Distribution of Fast Neutrons Scattered by Hydrogen, Deuterium, and Helium	J A Wheeler L A Turner [collaborator] M H Kanner



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Ladenburg	Rudolf Walter	Beers	Yardley	1941	Direct Determination of the Charge of the $\beta$ -Particle	L A Turner C C Van Voohis C Rosenblum [Chemistry]
Ladenburg	Rudolf Walter	Hane	W A	1943	A Canal Ray Ion Source for Nuclear Experiments	none
Ladenburg	Rudolf Walter	Winckler	John Randolph	1946	Interferometric Study of a Supersonic Air Jet from a Converging Nozzle	C C Van Voorhis H Panofsky A Kenny
Ladenburg	Rudolf Walter	Bershader	Daniel	1948	Interferometric Analysis of Supersonic Flow Through Rectangular Channels at Mach Number 1.7	A Kenny

Advisor		Student		Year	Dissertation Title	Others Acknowledged
Ladenburg	Rudolf Walter	Wachtell	George Peter	1952	Refraction Error in Interferometry of Boundary Layer in Supersonic Flow Along a Flat Plate	H Rieche [NYU] K W Meissner [Purdue] C C Van Voorhis A Kenney [computer]
Levinson	Carl Ansell	Talman	James D	1960	A Study of Systems Composed of Many Interactive Bosons	K A Brueckner
Levinson	Carl Ansell	Koltun	Daniel S	1961	New Methods of Spectroscopy Applied to the Nuclear 1-p Shell	M Bannerjee S Meshkov B Bayman
Lieb	Elliot	Benguria	Rafael	1979	The Von Weizsäcker and Exchange Corrections in the Thomas Fermi Theory	B Simon H Brezis Aizenman

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
McClure	Donald Stuart	Bermude	Victor Manuel Jr	1976	Spectroscopic Studies of the Quasi-Two- Dimensional Magnetic Insulators Chromium Trichloride and Chromium Tribromide	S E Schnatterly [Chem] A Salwin E I Solomon D B Chase [Chem grad student] [USN Rsch Lab] C C Klick M N Kabler
McCullen	John Douglas	Happer	William Jr	1964	Frequency Shifts in Atomic Beams Resonances	O Ames D R Hamilton W Kossler R G Comwell W H Hunt
McCullen	John Douglas	Cornwell	Robert G	1965	Nuclear Spins and Moments of Sc <sup>43</sup> and Ti <sup>45</sup>	O Ames W Happer
Mische	R E	Bersbach	Alfred John	1974	Neutron – Proton Forward Elastic Scattering from 58 to 391 MEV	T J Devlin M Noble L Rudnik J Dakin E Liddy

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Misner	Charles William	Rosen	Gerald	1959	On the Quantum Theory of General Relativity	none
Misner	Charles William	Baierlein	Ralph	1962	On the Existence and Properties of Space-like Hypersurfaces in Quantized General Relativity	J A Wheeler E Rodgers
Morton	George A	Cherry	William H	1958	Secondary Electron Emission Produced from Surfaces by Positron Bombardment	E W Engstrom D H Ewing V K Zworykin I Wolff H W Leverenz M G White D R Hamilton R Sherr

Advisor		Student		Year	Dissertation Title	Others Acknowledged
Nauenberg	Uriel	Colleraïne	Anthony P	1967	Isobar Production Mechanisms in Proton-Proton Collisions at 5 GeV/c	J Cronin
Nauenberg	Uriel	Sager	David J	1973	A Measurement of the KS Content of the $K^0$ State and the Branching Ratio Between the KS $2\pi$ Decays	A P Colleraïne R Morse A Goshaw D Hutchinson [Brookhaven] A Prodehl J Koehler K Wright R Broker D Berley V Bearg E Bierman

Advisor		Student		Year	Dissertation Title	Others Acknowledged
Naumann	Robert Alexander	Conlon	Thomas W	1966	High Resolution Studies of the Gamma-Rays from Isomeric States with Half- Lives of 10 $\mu$ s – 30 ms in Nuclei with Z = 63 – 83	G T Garvey A L McCarthy R Sherr E Kashey [grad student] B Gerace W C Price [Kings College]
Naumann	Robert Alexander	Evans	James S	1966	Experimental Investigation of Some Neutron-Deficient Nuclei	[Nuclear Chem Group] S Kaufman T D Thomas R F Petry [Berkeley] D A Shirley E Matthias
Naumann	Robert Alexander	Oelrich	Ivan C	1977	Investigations of Odd A Silver and Rhodium Isotopes as Tests of the Core Coupling Nuclear Model	G Struble [Livermore] R DelVecchio L Lind K Krien

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Naumann	Robert Alexander	Allred	David Dean	1977	Accurate Eigenvalue Expressions for Central Power Potentials with Applications to Collective Nuclear States	A Blaer
Oberman	Carl R	Berk	Herbert L	1964	Electrical Transport Equations for a Plasma Model	J Dawson I Bernstein A Ron D Book T Birmingham
Oberman	Carl R	Rogister	André L	1968	On the Kinetic Theory of Stable and Weakly Unstable Plasma	J Dawson M Kruskal B Kruer
Oberman	Carl R	Williams	Edward Aston	1973	On the Theory of Flucuations in Plasma	J Dawson B Dewar C Max

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
O'Neill	Gerard K	Wattson	Richard B	1964	A Spark Chamber Experiment on the $\Delta S = \Delta Q$ Rule in $K^0 e^3$ Decays	D Yount R Regge H de Alfaro [grad students] F Murphy P Eschstruth R Imlay J Gezelter P Wheeler
O'Neill	Gerard K	Eschstruth	Paul T	1966	Positron Momentum Spectrum from $K^+ e^3$ Decay	A K Mann [Penn] B Quassiat S B Treiman
O'Neill	Gerard K	Cheng	David C	1969	Search for the Process $e^+ + e^- \rightarrow \mu^- + \mu^-$	[Collaborators] W C Barber B Gittelman S Brodsky S Drell



	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Ostriker	Jerimiah Paul [Astronomy]	Tremaine	Scott Duncan	1975	Studies of Galactic Structure: The Formation of Galactic Nuclei, the Evolution of Satellite Galaxies, and the Stability of Bars	R M Kulsrud
Peebles	Phillip James Edwin	Yu	Jer Tsang	1969	Clusters of Galaxies – Their Statistics and Formation	J A Wheeler R H Dicke D T Wilkinson
Peebles	Phillip James Edwin	Hawley	D L	1972	The Distribution of Orientations of Galaxies with Special Attention to Selection Effects	E Groth M Nelson M Davis P Crane D Wilkinson B Dicke
Peebles	Phillip James Edwin	Ruddy	Vincent P	1972	A Measurement of the Mass-to-Light Ratio of the Coma Cluster of Galaxies	D Wilkinson P Crane B Partridge [grad student] M Nelson D R Hamilton

	Advisor		Student		Year	Dissertation Title	Others Acknowledged
Peebles	Phillip James Edwin	Chan	Kwing Lam		1975	Cosmic Primeval Turbulence	B J T Jones P Wüta
Peebles	Phillip James Edwin	Geller	Margaret Joan		1975	Bright Galaxies in Rich Clusters: A Statistical Model for Magnitude Distribution	P Crane I R King E Scott B J T Jones C Kittel M Loève K Kuchař S Geller
Peebles	Phillip James Edwin	Seldner	Michael		1977	The Distribution of Galaxies Around Rich Clusters and the Clustering of Radio Sources	E Groth R Soneira B Siebers J Fry
Phillips	E Alan	Casserberg	Bo R		1968	The Spins and Moments of In110 and In112	D R Hamilton

			Advisor	Student	Year	Dissertation Title	Others Acknowledged
Piroué	Pierre Adrien	Hogan		William J	1966	Search for $A B = 2, S = -1$ Resonance	A J S Smith A Lemonick P Kunz B Ford M White R Jankowicz E Glembocki S Kaufman
Piroué	Pierre Adrien	Smith		A J Stewart	1966	Search for Antiprotons and Study of Particle Production in 3 – BEV Proton-Nucleus Collisions	L Lederman W Lee C C Ting [Columbia] P Kunz R Remme W Hogan M G White A Lemonick

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Piroué	Pierre Adrien	Ford	William T	1967	Comparison of the K <sup>+</sup> and K <sup>-</sup> Decay into the $\tau$ and K $\mu$ 2 Modes	U Nauenberg A Lemonick R Remmel W J Hogan J Weiss A Colleraine A J S Smith
Piroué	Pierre Adrien [also collaborator]	Souder	Paul Allen	1971	Search for Violation of the CP Invariance in the Decay of K <sup>+</sup> Mesons into the $\tau$ Mode	[collaborators] W T Ford R S Remmel A J S Smith
Piroué	Pierre Adrien [also collaborator]	Mueller	James J	1980	Measurement of Direct Lepton Production at High Transverse Momentum in Proton-Nucleus Interaction	[collaborators] D Antreasyan J Cronin H Frisch M Shochet D Sumner B Pope

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Press	William	Wiita	Paul Joseph	1976	Models for Extragalactic Double Radio Sources	J A Wheeler R Gott M Rees J Bardeen J Binney R Blandford S Chandrasekhar T Chester L Cowie R Dicke R Durison P Marcus B Mashoon B Miller C Mollenhoff J Ostriker C Sarazin D Schramm M Schwarzschild M Seldner M Shull L Smarr R Soneira P Woodward E Zweibel

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Press	William	Marcus	Philip Stephen	1978	Nonlinear Thermal Convection in Boussinesq Fluids and Ideal Gasses with Plane-Parallel and Spherical Geometries	B Flannery L Liebovitch A Lightman G Rybicki L Smarr S Teukolsky A Whittington
Rau	R Ronald	Harris	Gerard G	1952	Low Gamma Rays emitted when a Negative $\mu$ Meson is Captured in Lead	T G B Shanely J W Keuffel G Salvini H W Lee

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Rau	R Ronald	Stix	Thomas H	1954	Heavy Nuclei in the Primary Cosmic Radiation: An Investigation at Balloon Altitudes by Cloud Chamber and Proportional Counter Telescope	J A Wheeler G T Reynolds A L Hodson K R Simon W H Arnold J McKeon J Ballam M Vidale H Lee E Card F Schwartz M F Kaplon M Goldhaber
Regge	Tullio	Hojman	Sergio	1975	Electromagnetic and Gravitational Interactions of a Relativistic Spherical Top	J A Wheeler K Kase R Ruffini D Wilkinson
Regge	Tullio	Lund	Fernando	1975	Aspects of Group Theory in the Statistical Mechanics of Homogenous Lattices	M Rasetti

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Reynolds	George Thomas	Harrison	Francis B	1951	Liquid Scintillation Counters and Their Application to the Measurement of the Negative $\mu$ -Meson Capture Probability in the Heavy Elements	A S Wightman Salvini D Hill R Sherr
Reynolds	George Thomas	Whyte	G N	1951	Cosmic Ray Bursts at High Altitudes	J A Wheeler J Winckler M Cohen
Reynolds	George Thomas	Godfrey	Thomas N K	1954	Absorption of Negative $\mu$ Mesons in Carbon	J W Keuffel A S Wightman
Reynolds	George Thomas	Gursky	Herbert	1959	A Counter-Cloud Chamber Investigation of K <sup>+</sup> Mesons Produced in Cosmic Rays	V J Van Lint J Ballam V L Fitch R R Rau H Lee [U Denver] M Iona O Cohon P OBotos F Shoemaker



	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Reynolds	George Thomas	Risk	Winthrop S	1966	Measurement of the Differential Cross-Section at $0^\circ$ for the Reaction $\pi^-p \rightarrow \pi^0n$	M G White A Lemonic R Turlay T Devlin F Schwarz W Bell S Hummel E Card
Reynolds	George Thomas	Milch	James Roger	1974	A Single Crystal X-Ray Study of Leucyl-tRNA- Aminoacyl-Ligase Using an Image Intensifier- Aided Detection System	H Wright P Botos A Adler
Reynolds	George Thomas	Gruner	Sol Michael	1977	The Application of an Efficient X-Ray Detector to Diffraction from Retinal Rod Outer Segment Membranes	J Milch D Piccard P Botos [Penn] J K Blaise G Santillan T Hamanaka M Applebury

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Robertson	Howard Percy	Stehle	Philip McLellan	1944	Star Streaming	A H Taub J M Jauch
Robertson	Howard Percy	Slutz	Ralph J	1946	The Reaction of Thin Beams and Slabs to Impact Loads Part III Slabs	none
Rutherford	Paul H	Marsh	Jeffrey Brian	1970	Anomalous Transmission and Reflection of Cyclotron Waves	C Oberman E Frieman R N Sudan [advisor, 66-67]
Schnatterly	Stephen E	Callender	Alan Bruce	1970	An Optical Absorption Study of Dilute Silver-Palladium Alloys	T R Carver J D Dow
Schnatterly	Stephen E	Palmer	Richard Everett	1971	Observations of Surface Plasmons and Measurement of the Optical Properties of Sodium and Potassium	J Hopfield J Dow T Carver [collaborators] S Sari A Callender [grad students] M Miller D Manikopoulos

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Schnatterly	Stephen E	Miller	Mathew David	1974	The Optical Properties of Dilute Silver-Manganese Alloys	none
Schnatterly	Stephen E	Ritsko	John James	1974	Inelastic Electron Scattering	P Gibbons T Moog J Fields T Carver J Hopfield J Dow S Nagel P Colter
Schnatterly	Stephen E	Williams	Richard Taylor	1974	Magnetic Circular Dichroism in the Urbach Edge: A Survey of Selected Ionic and Polar Covalent Crystals	J D Dow [grad students] S Nagel F Ferrone M Miller J Griffin P Colter

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Schnatterly	Stephen E	Nagel	Sidney Robert	1975	Infrared Properties of Metals and Wavevector Dependent Local Field EffectS	T A Witten J J Hopfield T R Carver P C Gibbons G T Reynolds E Church R E Palmer S Sari R Chang A Chang P Colter M Miller [grad students] F G Ferrone J Griffin

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Schnatterly	Stephen E	Colter	Peter Charles	1976	Surface Photoemission and the Optical Properties of Disordered Metals	T Carver J Hopfield P Gibbons W H Smith [grad students] M Miller R Williams S Nagel F Ferrone J Griffen J Ritsko A Chang
Schnatterly	Stephen E	Slusky	Susan Elizabeth Graber	1978	Inelastic Electron Scattering Measurements of Core Thresholds in Simple Metals	P Gibbons T Aton [grad students] J Fields S Girvin C Franck F Zutavern

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Schrank	Glen	Bennett	Edgar F	1958	Nuclear Distributions of Deuterons from Reactions Induced by 18 MEV Protons Incident on a Few Light Nuclei	R Sherr J Blair M K Banerjes R Detenbeck
Schrank	Glen	McLeod	John VI	1962	Populations of Magnetic Substrates under the Influence of Optical Pumping in High Buffer Pressures	C P Baker [Brookhaven] D R Hamilton R Sherr R A Naumann T R Carver C O Alley
Schrank	Glen	Sibilia	John T	1962	The Polarization of the Radioactive Nucleus Sodium 21, through Optical Pumping	T R Carver C O Alley A G Shenstone C Baker [Brookhaven]
Schrank	Glen [also identified as collaborator]	Henry	George R	1963	Measurement of the Anomalous Gyromagnetic Ratio of the Positive Mu Meson	R A Swanson V L Fitch

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Schrank	Glen	Pollock	Robert E	1963	A Measurement of Proton Total Reaction Cross Section at 16.6 MEV	W W Daehnick
Schrock	R E	Hassani	Sadreddin Behbahani	1980	Study of the Decays $\mu \rightarrow e \gamma$ and $\mu \rightarrow e e^+ e^-$ in the SU[2]xU[1] Weak Gauge Group	D L Preston
Schwarz	John H	Sanda	Anthony Ichiro	1969	Calculation of KN and K- N Scattering Lengths and Phase Shifts by a Pole Dominance Method	none

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Schwarz	John H	Aubrecht	Gordon J II	1970	Dispersion Calculation of Isoscalar Electromagnetic Form Factors	V Bargmann [grad students] S Auerbach R Bower G Farrar C Friedberg K Fujikawa M Guttman M Mudge G Riela T Sanda S Schultz B Simon P Crean
Seiler	Erhard	Plohr	Bradley J	1980	The Existence, Regularity, and Behavior of Isotropic Solutions of Classical Guage Field Theories	B Simon [grad student] M Ashbaugh [associates] B Benguria D Ćetković P Perry



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Shenstone	A G	Moore	Frank L Jr	1949	The Second Spark Spectrum of Chromium	R J Lang R Osborne L Harris
Shenstone	A G	Martin	William C	1956	The Energy Levels and Spectra of Neutral and Singly Ionized Phosphorus	L Harris R Trees H A Robinson
Sherr	Rubby	Fireman	Edward L	1949	An Experiment on Double Beta Decay	H D Smyth M G White E P Wigner J W Tukey
Sherr	Rubby	Muether	Herbert R	1951	The Shape of the Low Energy Beta Spectrum of Rb86	S L Ridgway D R Hamilton M G White
Sherr	Rubby	Horton	John W	1953	An Investigation of the Alpha-Gamma Angular Correlation in the Decay of ThC [Bi212]	M G White R Goeckerman

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Sherr	Rubby	Gerhart	James B	1954	The Beta Spectrum of $O^{14}$ and the Interactive Coupling Constants for Beta Decay	M G White P C Gugelot R A Naumann I Talmi A S Wightman
Sherr	Rubby	Standing	Kenneth G	1955	The Angular Distribution of Deuterons from $N^{14}$ [p, d] $N^{13}$ and $Li^7$ [p, d] $Li^6$	R Mozely A Feingold S M Neamtan P C Gugelot M G White G Schrank
Sherr	Rubby	Blanpied	William A	1959	Polarization of Protons Elastically Scattered from Several Nuclei Near 17 MEV	K Brockman K Bjorklund [Livermore] L Rosen [Los Alamos] C Levinson G Schrank J Blair H Hill R Detenbeck

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Sherr	Rubby	Yoshiki	Hajimé	1959	p' – $\gamma$ Angular Correlation in the Inelastic Scattering of 16.6 MEV Protons by Mg24	R W Detenbeck H A Hill J Sawicki J Blair G Schrank D R Maxon T H Braid E D Bennett W F Hornyak K W Brockman
Sherr	Rubby	Brady	F Paul	1960	Proton-Alpha Reactions in Medium-Heavy Nuclei	P C Gugelot J B Reynolds G Likely F Shoemaker G Schrank D R Hamilton
Sherr	Rubby	Detenbeck	Robert W	1962	Proton Energy Distributions and Proton- Proton Angular Correlations in the N14[p, 2p]C13 at 19 Mev	D Maxon E Bennett C Clement H Hill E Yost T Braid

			Advisor	Student	Year	Dissertation Title	Others Acknowledged
Sherr		Rubby	Nolen	Jerry A Jr	1965	Direct [p, $\alpha$ ] Reactions on Isotopes of Copper and Zinc	E Rost B Bayman J Schiffer C Glashausser E Kashy W Gerace P J Plauger J Timble

Advisor		Student		Year	Dissertation Title	Others Acknowledged
Sherr	Rubby	Glashausser	Charles M	1966	An Investigation of J Dependence in Neutron Pickup Reactions	[Colorado] M Rickey D Lind J Kraushaar M Kondo R G Matlock [Oak Ridge] R H Bassel G R Satchler J K Dickens [grad students] B Gerace P Plauger G Crawley J A Nolen C Whitten [undergrads] L Fellman S Buchner S Feldman

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			Advisor	Student	Year	Dissertation Title	Acknowledged
Sherr	Rubby	Whitten		Charles A	1966	Nuclear Spectroscopy in the 1f7/2 Region by the [p, d] and [p, t] Reactions	A Liebe E Kashy E Rost B Bayman J D McCullen L Zamick R Pollock [grad students] G Crawley C Glashausser J Nolen
Sherr	Rubby	Haight		Robert C	1969	P,D and P,T Reactions in the 2S–1D Shell	G T Garvey I Talmi [grad students] W J Gerace P S Miller G Ripka G F Bertsch A M Gree
Sherr	Rubby	Kouzes		Richard Thomas	1975	A Measurement of the Mass of He8	W Moore

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Simon	Barry	Harrell	Evans Malot II	1976	Schödinger Operators with Singular Perturbation Potentials	J Klauder J Leib
Simon	Barry	Deift	Percy Alec	1977	Classical Scattering Theory with a Trace Condition	I Herbst D Pearson J Ginibre
Simon	Barry	Ashbaugh	Mark S	1980	Asymptotic Perturbation Theory for the Eigenvalues of Schrödinger Operators in a Strong Coupling Limit	[colleague] B Plohr E Harrell J Morgan P Perry
Smarr	Larry	Eppley	Kenneth Robert	1975	The Numerical Evolution of the Collision of Two Black Holes	J A Wheeler W Press J York W Unruh B DeWitt M Kruskal C W Misner R Deupree

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Smith	Lincoln G	Williams	Van Zandt	1941	An Infrared Study Under High Resolution of the Formic Acid Molecule and its Deuterated Forms	J A Wheeler J Y Beach
Smith	Arthur John Stewart [Note: A J Stewart Smith is initially identified as a collaborator in the experiment]	Branson	James G	1977	Measurement of Inclusive Muon Pair Products by 225 GEV   c $\pi^+$ , $\pi^-$ , and Proton Beams with a Large Acceptance Spectrometer	[collaborators] K J Anderson G G Henry K T McDonald J E Pilcher E I Rosenberg G H Sanders G Hogan J Mueller C Newman R Pisarski
Smith	Arthur John Stewart	Hogan	Gary Elliot	1979	Production of High Mass Muon Pairs by 225 GeV Hadron Beams and a Determination of the Pion Structure Function	none



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Smyth	Charles P	Rampolla	Robert W	1958	Studies in Dielectric Behavior at Millimeter Wavelengths, and in Molecular Shape and Dielectric Relaxation Time	R C Miller [co-workers] A J Petro D A Pitt B B Howard
Spencer	Thomas C	Kupiainen	Antti Jukka	1980	Some Rigorous Results on the $1/N$ Expansion	B Simon
Spitzer	Lyman	Montgomery	David	1960	Topics in Non-Linear Plane Wave Motion in a Classical Ionized Gas	[Project Matterhorn] M Kruskal I Bernstein E Freiman M L Goldberger
Spitzer	Lyman	Shull, John	John Michael	1976	Ultraviolet Investigations of the Intercloud Medium and High Velocity Interstellar Gas	D C York
Teitelboim	Claudio	Pilati	Martin	1980	The Canonical Formulation of Supergravity and the Quantization of the Ultralocal Theory of Gravity	M Henneaux J R Klauder

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Treiman	Sam Bard	Weinberg	Steven	1957	The Role of Strong Interactions in Decay Processes	F J Dyson M J Goldberger
Treiman	Sam Bard	Khuri	Nicola Najib	1958	Dispersion Relations for Potential Scattering	M L Goldberger
Treiman	Sam Bard	Albright	Carl H	1960	Soluble Models and Approximation Methods in Dispersion Theory	M L Goldberger
Treiman	Sam Bard	Edwards	Kenneth Westbrook	1961	The Mandelstam Representation for Dirac Potential Scattering	R Blankenbecler
Treiman	Sam Bard	Kim	Young Suh	1961	Dispersion Relations for Production Amplitudes	M L Goldberger S Brown L F Cook J Tarski R Morrow
Treiman	Sam Bard	Bronzan	John B	1963	Overlapping Final State Resonances	none
Treiman	Sam Bard	Dutta-Roy	Binayak	1963	The Self-Coupling of the Neutrino-Electron Current and Neutrino Induced Reactions	none

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Treiman	Sam Bard	Kantor	Paul B	1963	Nucleon-Nucleon Scattering and the Meson Resonances	J Rosner D Knudson J Bronzan F Gross
Treiman	Sam Bard	Adler	Stephen L	1964	High Energy Neutron Reactions and Conservation Hypotheses	D Cassel C Callan L D Roper
Treiman	Sam Bard	Goldhaber	Alfred Scharff	1964	Tests of Exchange Models Including Spin	V Hagopian R Logan A Martin D K Robinson C R Schumacher W Selove C Callan
Treiman	Sam Bard	Rosner	Jonathan L	1965	Exchange of Massive Particles in the Bethe- Salpeter Equation	F Gilman J Noble O Lanford G Tiktopoulos [Math Dept] R G Sachs L Cooper

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Treiman	Sam Bard	Johnson	Porter W	1967	Bounds in Scattering Theory	G Tiktopoulos [colleagues] G Svetlichny R Uritam R Powers
Treiman	Sam Bard	Uritam	Rein Aarne	1968	Soft Pion Reactions, with Application to p-p Annihilation	S Nussinov P W Johnson R A Faulkner J P Vajk H O Rimi G Svetlichny
Treiman	Sam Bard	Chen	Herbert Hwa-Sen	1968	Electromagnetic Simulation of Time Reversal Violation in Beta Decay	K W Chen S H Aronson O Ames D R Hamilton E A Phillips
Treiman	Sam Bard	Farrar	Glennys Reynolds	1970	The Weak Radiative Decay of the $\Sigma^+$ and $\Lambda$ Hyperons	none

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Treiman	Sam Bard	Fujikawa	Kazuo	1970	A Study of the Self-Coupling of Weak Lepton Currents at High Energies	L Lederman P Crean N Christ J Schwarz J Cronin G Carvey W Stoner F Weinstein
Treiman	Sam Bard	Schutz	Stephen A	1970	A Study of the Decay Process $K \rightarrow \pi e \nu$ with Regard to the Search for Time Reversal Violation	N Christ W I Weisberger G Paparata H Abarbanel [advisor '68-'69] R E Pollock G Riela G Albrecht A Sanda P Crean K Fujikawa

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Treiman	Sam Bard	Shanahan	William R	1972	Effects of Second Class Currents in Nuclear Beta Decay	F P Calaprice G T Garvey B R Holstein G Farrar L Ford A O'Connor
Treiman	Sam Bard	Ward	Bennie Franklin Leon	1973	Spin Effects in Inelastic Lepton Nucleon Scattering	none
Treiman	Sam Bard	Shrock	Robert E	1975	Topics in Guage Theories of Weak Interactions: Hyperon Production by Charged and Neutral Currents and the Neutral Heavy Lepton Decay L0	S L Adler P A Schreiner H S Tsao Y G Ng
Treiman	Sam Bard	Monsay	Evelyn Hope	1977	Second Class Currents in Weak Pion Production	S L Adler T N Tudron
Treiman	Sam Bard	Yevick	David Owen	1977	The Induced Axial Vector Coupling for Muon- Neutrino Electron Scattering in Weak Vector Models	D Gross S Adler F Wilczek

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Treiman	Sam Bard	Chun	Cornell S L	1978	Heavy Leptons: Tau- Particle Production in Proton-Nuclei Collisions; Trimuon Production by a Heavy Lepton Cascade	none
Treiman	Sam Bard	Preston	Dean L	1980	Electromagnetic Effects in the Production of Dimuons at Large Transverse Momentum	S Hassani M Seldner
Turkevich	John	Hubbell	Harry Hopkins Jr	1948	X-Ray Scattering at Small Angles	E Campbell R W Ladenburg H S Taylor R H Dicke F Firth [North American Philips Co.]

	Advisor		Student	Year	Dissertation Title	Others Acknowledged
Van Allen	James Alfred	Clearman	Harold Edgar	1953	On the Solar Spectrum from 2285 Å to 3000 Å	J W Barghausen L W Fraser A V Gagnes R S Ostrander J V Smith [App Phys Lab, Hopkins] J P Kuiper [Yerkes Observatory]
Warburton	Ernest Keeling	Legg	James C	1962	Pickup Reactions Induced by Protons Incident on Selected Light Nuclei	R Sherr W Daehnick C Clement E F Bennett [Bell Labs] W Brown P Donovan
Warter	Peter James	Comizzoli	Robert B	1967	Polarization Currents in Insulators with Blocking Contacts: Models and Experiments	F K Manasse A M Goodman N F J Matthews G Warfield V Dalal



	Advisor		Student	Year	Dissertation Title	Others Acknowledged
White	Milton Grandison	Fox	J G	1942	The Radioactivity of Zn <sup>65</sup>	L A Delsasso E P Wigner
White	Milton Grandison	Lipkin	H J	1951	The Scattering of Positrons and Electrons by Nuclei	H W Fulbright R A Goeckermann J A Odencranz
White	Milton Grandison	Brockman	Karl W Jr	1954	A Measurement of the Differential Cross Section for the Scattering of Protons by Helium near 17.5 MEV	J L Yntema P C Gugelot K G Standing
Wightman	Arthur Strong	Ferrell	Richard A	1952	The Fine Structure of Positronium	V Bargmann A Bohr F Rohrlich
Wightman	Arthur Strong	Kennedy	James M	1953	The Scattering of Two Dirac Particles	E P Wigner
Wightman	Arthur Strong	Schweber	Silvan S	1953	The Configuration Space Treatment of Relativistic Field Theories	V Bargmann F Rohrlich E P Wigner
Wightman	Arthur Strong	Greenberg	Oscar Wallace	1957	The Asymtotic Condition in Quantum Field Theory	none

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Wightman	Arthur Strong	Lew	John S	1960	The Structure of Representations of the Canonical Commutation Relations	R Haag
Wightman	Arthur Strong	Brown	William Stanley	1961	On the Analytic Properties of the Vertex Function with Mass Spectrum Conditions	R C Gunning H Rossi H Epstein N Burgoyne
Wightman	Arthur Strong	Burgoyne	N	1961	Some Properties of Scattering Amplitudes	H Araki S Brown H Epstein
Wightman	Arthur Strong	McKenna	James	1961	On Analytic Regularization in Relativistic Quantum Field Theory	none
Wightman	Arthur Strong	Hardy	James E	1962	Pre-Local Scattering Theory	none
Wightman	Arthur Strong	Woods	E James	1962	Representations of the Commutation Relations Describing a Non-Relativistic Infinite Free Bose Gas	E P Wigner J Feldman L Gross

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Wightman	Arthur Strong	Dollard	John Day	1963	Non-Relativistic Time-Dependent Scattering Theory and the Coulomb Interaction	V Bargmann
Wightman	Arthur Strong	Shelupsky	David	1965	Translations of the Discrete Bose-Einstein Operators	V Bargmann
Wightman	Arthur Strong	Jaffe	Arthur M	1966	Dynamics of a Cut-Off $\lambda\Phi^4$ Field Theory	[grad student] O E Lanford G Svetlichny E Nelson L Hörmander
Wightman	Arthur Strong	Lanford	Oscar E	1966	Construction of Quantum Fields Interacting by a Cut-Off Yukawa Coupling	A M Jaffee E Nelson
Wightman	Arthur Strong	Capri	Anton Z	1967	External Field Problem for Higher Spin Particles	P J E Peebles [grad students] A H Clark G Gruber G Svetlichny R Powers

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Wightman	Arthur Strong	Powers	Robert T	1967	Representations of the Canonical Anticommutation Relations	E Nelson C Gruber A Jaffe O Lanford III G Svetlichny
Wightman	Arthur Strong	Schulman	Lawrence	1967	A Path Intergral for Spin	E Nelson B DeWitt H Bacry [grad students] P Fishbane C Cantrell J Marsden A Schulka
Wightman	Arthur Strong	Gruber	Christian W	1968	Green's Functions in Quantum Statistical Mechanics	J Ginibre E Nelson
Wightman	Arthur Strong	Goldin	Gerald A	1969	Current Algebras as Unitary Representations of Groups	R T Powers D Sharp A Dicke B Simon G Svetlichny

	Advisor		Student		Year	Dissertation Title	Others Acknowledged
Wightman	Arthur Strong	Svetlichny	George		1969	Generalized Operators	none
Wightman	Arthur Strong	Simon	Barry Martin		1970	Quantum Mechanics for Hamiltonians Defined as Quadratic Forms	G Tiktopoulos E Nelson V Bargmann C Fefferman J J Kohn M Reed E Stein
Wightman	Arthur Strong	Newman	Charles M		1971	Ultralocal Quantum Field Theory in Terms of Currents	E Nelson V Bargmann A Chastel S Fulling J Glimm J Klauder M Reed B Simon

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Wightman	Arthur Strong	Fulling	Stephen Albert	1972	Scalar Quantum Field Theory in a Closed Universe of Constant Curvature	R Ruffini L Parker B B Godfrey M C Reed G J Zuckerman B Simon V Bargmann G Borner L Ford J Friedman F Goldrich B-L Hu A Jaffee K Kuchař C Misner F Narcowich C Newman C Rhoades J Roberts I Rosen S Strom E Toten W Unruh F Weinstein E Wigner York, J

	Advisor		Student		Year	Dissertation Title	Others Acknowledged
Wightman	Arthur Strong	Baumel	Robert T		1979	On Spontaneously Broken Symmetry in the $P[\Phi]^2$ Model Quantum Field Theory	F Guerra J Lebowitz E Nelson J Nuttall A Reiman L Rosen E Seiler B Simon
Wigner	Eugene Paul	Huntington	Hillard Bell		1941	Mechanism for Self-Diffusion in a Copper Lattice	F Seitz
Wigner	Eugene Paul	Eisenbud	Leonard		1948	The Formal Properties of Nuclear Collisions	none
Wigner	Eugene Paul	Moshinsky	Marcos		1949	Relativistic Interactions by Means of Boundary Conditions	none
Wigner	Eugene Paul	Snow	George Abraham		1950	The Cross Section of $[N, 2N]$ Reactions Near the Threshold	none
Wigner	Eugene Paul	Teichmann	Theodor		1950	Some General Properties of Nuclear Reaction Cross-Sections and Level Widths	none

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Wigner	Eugene Paul	Jaynes	Edwin T	1951	An Electronic Theory of Ferroelectricity	B T Matthias T Teichmann
Wigner	Eugene Paul	Tiomno	Jayme	1951	Properties of the Neutrino and Double Beta Decay	A Wightman D Bohm
Wigner	Eugene Paul	Feingold	Arnold M	1952	Effect of the Tensor Force on the Low Levels of Li6 and Li7	T Teichmann E Jaynes [Stanford] S Rubinow [MIT] F Innes [Penn]
Wigner	Eugene Paul	Redlich	Martin G	1954	On the Agreement Between Nuclear Shell Theory and Experiment	I Talmi
Wigner	Eugene Paul	MacDonald	William M	1955	The Validity of the Isotopic Spin Quantum Number for Light Nuclei	I Talmi
Wigner	Eugene Paul	Stern	Frank	1955	The Binding Energy of Metallic Iron	none
Wigner	Eugene Paul	Vogt	Erich	1956	A Model for the Nucleon-Nucleus Interaction	R G Thomas A M Lane



Advisor			Student	Year	Dissertation Title	Others Acknowledged
Wigner	Eugene Paul	Krotkov	Robert	1958	Three Applications of the Derivative Matrix Formalism	none
Wigner	Eugene Paul	Sauer	Andrej	1958	Multiple Particle Emission in Resonance Reactions	none
Wigner	Eugene Paul	Dresner	Lawrence	1959	Resonance Absorbption in Nuclear Reactors	A M Weinberg
Wigner	Eugene Paul	Shimony	Abner Eliezer	1962	Regressions and Response in Thermodynamic Systems	J Lebowitz M S Green E C D Cohen E Gross M Kac P Mazur L Tisza G E Uhlenbeck N G Van Kampen
Wigner	Eugene Paul	Duke	Charles B	1963	Approximate Single-Particle Motion in Many-Fermion Systems	G E Brown H van Dam L Zamick
Wigner	Eugene Paul	Philips	Thomas O	1963	Localized States in De Sitter Space	none

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Wigner	Eugene Paul	Bronk	Burt V	1965	Topics in the Theory of Random Matrices	B F Bayman [advisor pro-tem] C Ufford S Pollack V Bargmann J Ginibre D Shepulsky Y Sharon
Wigner	Eugene Paul	Irving	Jack H	1965	Wigner Distribution Functions in Relativistic Quantum Mechanics [Volume I ] Wigner Distributions Functions in Relativistic Quantum Mechanics {Volume II }	J M Richardson M Goldberger
Wigner	Eugene Paul	Sharon [Schwadron]	Yitzhak Yaakov	1966	On the Connection Between the Nuclear Shell and Collective Models – The Peierles- Yoccoz Model with a Zero-Range Interaction	B F Bayman L Zamick G E Brown

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Wigner	Eugene Paul	Clark	Albert H Jr	1969	The Representation of the Special Conformal Group in High Energy Physics	H A Kastrup V Bargmann
Wigner	Eugene Paul	Smith	Wallace Arden	1970	A Non-Negative Quantum Mechanical Phase Space Distribution Function	V Bargmann G W Svetlichny
Wigner	Eugene Paul	Goldrich	Frederic E	1972	Time Delay Measurements and the Observability of the Collision Matrix	F Weinstein S Fulling F Narcowich J Dow
Wigner	Eugene Paul	Narcowich	Francis Joseph	1972	The Mathematical Theory of the R-Matrix	V Bargmann J Kohn M D Kruskal E Nelson D C Spencer A S Wightman [grad students] R BaumeI S Fulling R Wald

Advisor		Student		Year	Dissertation Title	Others Acknowledged
Wilczek	Frank	Wandzura	Stephen Michael	1977	Topics in Deep Inelastic Scattering	S Adler R Baltrusaitis V Bargmann S Barr A Blaer C Callan D Cetkovic D Coyne B Crutchfield R Dashen S Girvin D Gross J Hopfield D Jensen S Libby P Marcus Narayanaswami C Nohl R Palmer T Regge G Sanders J Schonfeld F Shoemaker A J S Smith D Soper; P Surko Teitelboim, C Thaler, J Toussaint, D Treiman, S Witten, E Yevick, D Zee, A

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Wilczek	Frank	Toussaint	W Douglas Jr	1978	Higgs Particles in an Extended Weinberg- Salam Model of Weak and Electromagnetic Interactions	N Andrei
Wilkinson	David Todd	Stokes	Robert A	1969	A Measurement of the Cosmic Microwave Background Radiation at Wavelengths of 1.58 cm and 3.3 mm	P E Boynton R B Partridge R H Dicke P J E Peebles
Wilkinson	David Todd	Henry	Paul Shala	1970	A Measurement of the Isotropy of the Cosmic Microwave Background at a Wavelength of 3 cM	P Boynton J Peebles K Davis E Groth B Partidge J Bucknum H Hannah

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Wilkinson	David Todd	Davis	Karl C	1971	A Measurement of the Isotropy of the Microwave Background Temperature at 6 cm Wavelength	J Campbell J Bucknum P S Henry M Hauser P J E Peebles P Boynton
Wilkinson	David Todd	Groth	Edward John III	1971	Absolute Timing of the Crab Nebula Pulsar, NPJ532	P Boynton B Partridge P Nanos D Hutchinson J Peebles R Dicke R Ruffini J Bachall P Henry M Nelson K Davis
Wilkinson	David Todd	Nelson	Mark Radford	1972	Search for Optical Pulsars	K Davis P Nanos D Hutchinson E Groth P Crane

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Wilkinson	David Todd	Davis	Marc	1973	Search for Galaxies at Large Redshifts	M Hauser E Groth B Wickes J Peebles B Partridge H Spinrad [Berkeley] [grad students] M Nelson B Stoner P Nanos L Rudnick
Wilkinson	David Todd	Nanos	George Peter	1974	Polarization of the Blackbody Radiation at 3.2 cM	M Hauser [undergrads] W F Baron W N Cunningham D McCarthy B Corey E Groth L Rudnick C Swanson V Bearg

Advisor			Student	Year	Dissertation Title	Others Acknowledged
Wilkinson	David Todd	Stoner	William Weber	1975	A Search for A Diffuse Brightness Associated with Coma Cluster	H Doolittle M Braun G DeMeester [Raytheon Medical] F Horrigan [Raytheon Research] M Hauser
Wilkinson	David Todd	Dube	Roger R	1976	A Measurement of the Extragalactic Background Light	B Wickes B Corey P Crane G Gollin E Groth E Loh S Tremaine D Preston C Nohl
Wilkinson	David Todd	Swanson	Claude Vince Jr	1976	The Upper Frequency Limit, Impedence Matching Techniques, and Vortex Dynamics in Dayem Bridges	S Schnatterly E Hannah



Advisor			Student	Year	Dissertation Title	Others Acknowledged
Wilkinson	David Todd	Loh	Edwin Din	1977	A Search for a Halo around NGC 3877 with a Charge Coupled Detector	P Crane S Beck E Cheng S Meyer
Wilkinson	David Todd	Corey	Brian Elliott	1978	The Dipole Anisotropy of the Cosmic Microwave Background at a Wavelength of 1.6 cm	E Groth C Franck M Davis P Nanos L Rudnick
Wilson	Robert Rathbun	Fowler	Joseph Lee	1943	[Secret]	none
York	James Wesley Jr	O'Murchadha	Niall	1973	Existence and Uniqueness of Solutions to the Hamiltonian Constraint of General Relativity	V Bargmann K Kuchař K Nakagawa A Wightman

Advisor		Student		Year	Dissertation Title	Others Acknowledged
Yoshikawa	Shoichi	Young	Kenneth M	1968	Flucuations and Particle Loss in Ohmic Heated Discharges in the Model C Stellarator	D J Grove L Ornstein H Pacher B Langdon W Stodiek P Rutherford J L Johnson B Coppi G V Sheffield M Gottlieb T H Stix H P Furth
Yoshikawa	Shoichi	Pacher	Horst Dietrich	1970	Indentification and Stabilization of Resistive Drift Waves in the Spherator	S Von Goeler G W Pacher [brother] F W Perkins H P Furth K M Young R L Freeman M Okabayashi

Advisor		Student		Year	Dissertation Title	Others Acknowledged
Zee	Anthony	Narayanaswami	Vasanti	1976	Weak Radiative Decays of Hyperons and Calculations in the Lattice Gauge Theory	W Witten F Wilczek
Zee	Anthony	Barr	Stephen M	1978	Natural Approximate Lepton Symmetries	R Sherr S Treiman F Wilczek R Delvicio S Wandura
[ Mult advisors ] Wilson Rathbun Julian	Robert Mack Ellis	Gilvarry	John James	1943	[Secret]	none
[Mult Advisors] Jauch [Princeton]; Pauli [Inst Adv Study]	Joseph  Wolfgang	Blatt	John M	1946	On the Heavy Electron Pair Theory in the Strong Coupling Limit	none

Advisor		Student		Year	Dissertation Title	Others Acknowledged
[Mult Advisors] Jauch Pauli [Inst Adv Study]	Joseph Wolfgang	Lopes	José Leite	1946	High Energy Neutron-Proton Scattering and the Meson Theory of Nuclear Forces with Strong Coupling	none
		Mariner	Thomas	1947	Part I: A Large Mass Spectrometer Employing Crossed Electric and Magnetic Fields [Bleakney-Hipple Type] Part II: The Ionization and Dissociation of Formic Acid Monomer by Electron Impact	M G White C S Cummings R Matheson G Reynolds R Sutton
	W H D	Britten	Roy	1952	The Scattering of 32 MEV Protons from Several Elements	D Bohm L Alvarez [Berkeley]
[Mult Advisors] Sherr Fulbright	Rubby H W	Brown	Fielding	1953	Cosmic Ray Star Production in Neon, Argon, and Krypton	M Iona [U of Denver] P C Gugelot S Treiman
	G T R Ronald					

Advisor		Student	Year	Dissertation Title	Others Acknowledged
[Mult Advisors] Reynolds Salvini	G T G	Kim Young Bae	1954	Energy Distribution of Neutral Mesons Produced in Cosmic Ray Stars	none
[Mult Advisors] Wigner Herring	E P W Conyers	Schmid Lawrence A	1954	Calculation of Cohesive Energy of Diamond	none
[Mult Advisors] Rau Reynolds Ballam Hodson	R Ronald G T Joseph Albert L	Arnold Wm Howard Jr	1955	A Cloud Chamber Investigation of Charged $\nu$ Particles [and] Properties of the Charged $\Theta$ Meson	H Strader H Lee F Schwartz E Card P Botos
[Mult Advisors] Reynolds Keuffel	G T Jack W	Meyer Albert J	1955	Nuclear Absorbtion of $\mu$ Mesons in Medium and Heavy Elements	[grad students] J R H Dempster R Motley
[Mult Advisors] Herring Kohn Wigner	W Conyers Walter E P	Callaway Joseph	1956	Electronic Energy Bands in Iron with Application to Ferromagnetism	none

Advisor		Student	Year	Dissertation Title	Others Acknowledged
[Mult Advisors]		Eisen	1956	Self-Diffusion in Indium Antimonide and Gallium Antimonide	S M Christian [RCA Labs] H J Rostowski [Bell Labs]
Birchenall	C E				
Meussner	R A				
Bricker	C E				
[Mult Advisors]		Hardy	1958	A Cloud Chamber Investigation of Neutral Strange Particles	G K Lindeberg W Moore A Werbrouck P Botos
Reynolds	G T				
Bowen	T				
Ballam	J				
[Mult Advisors]		Lindeberg	1958	A Cloud Chamber Investigation of Charged Curious Particles	G K O'Neil A L Hodson R R Rau V A J van Lint H E Strader H E Lee F Schwartz
Reynolds	G T				
Ballam	J				
[Mult Advisors]		Wellner	1958	The Use of Functionals in Scattering Problems	none
Wigner	E P				
Goldberger	M L				

Advisor		Student		Year	Dissertation Title	Others Acknowledged
[Mul advisors] Bleakney Griffith	W	Matthews	David LeSueur	1959	The Rate of Dissociation of Oxygen in the Shock Tube	V Blackman W R Smith E L Resler [Cornell] E P Wigner D F Hornig
	W H					
[Mult Advisors] Bowen Reynolds	T	Werbrouck	Albert Eugene	1959	Strange Particle Production in Complex Nuclei	W Moore G Tagliaferri J Hardy J Ballam R R Rau C L Longmire
	G T					
[Mult Advisors] Bernstein Frieman Kruskal	I B	Bussard	R W	1961	An Energy Principle for the Stability of Hydromagnetic Plasmas in Equilibrium Motion	
	E A					
	M					
[Mult Advisors] Sherr Gerhart Schrank Shoemaker		Miller	John H, III	1961	The Positron Spectra of $V^{46}$ , $Mn^{50}$ , $Co^{54}$ , and $Cu^{58}$	D Sutton
	Rubby					
	Jim					
	Glen					
	F					

Advisor		Student	Year	Dissertation Title	Others Acknowledged	
[Mult Advisors]		Robinson	Bruce B	1961	A Variational Description of Transport Phenomena	none
Rabinowitz	I					
Vandenburg	H					
Ingebrand	R					
[Mult Advisors]		Engels	Eugene Jr	1962	A Measurement of Spin Correlation in Proton-Proton Scattering at 400 and 450 MEV	M Scheibner D J Vernon
Cronin	James					
Pondrom	Lee C					
McIlvain	L					
Bowen	T					
[Mult Advisors]		Harris	David L	1962	Nuclear Spins and Moments of Sc44 and Sc44m	J J Pinijian [Oak Ridge]
Hamilton	D R					
McCullen	J D					
[ Mult advisors ]		Poultney	Sherman K	1962	The Role of Focusing Čerenkov Counters in High Energy Physics	R Zdanis D P Scarl
Reynolds	G T					
Waters	John R					
[Mult Advisors]		Scarl	Donald B	1962	A Filament Scintillation Chamber Measurement of the for $\mu^- + \text{C}^{12} \rightarrow \text{B}^{12} + \nu$	[co-authors] J R Waters R A Zdanis P Botos R Siegel [Carnegie Inst]
Reynolds	G T					
Swanson	R A					



Advisor		Student		Year	Dissertation Title	Others Acknowledged
[Mult Advisors] Sherr Hill	Rubby Henry Allen	Sutton	David Chase	1962	Half-Lives of and Isomerism in V46, Mn50, Co54 and Cu58	J B Gerhart A Bernstein J C Legg J H Miller III
[Mult Advisors] Motley D'Angelo	R W N	Wong	Alfred Yiu-Fai	1963	Excitation, Propagation and Damping of Ion Acoustic Waves in Highly-Ionized Plasmas	D Pines T Stix
[Mult Advisors] Dicke Reynolds	Robert H G T	Jordan	Lawrence M	1964	The Velocities of 4 BEV/C Pions, and 8 BEV/C Pions, Kaons and Protons	S K Poultney R Phillips
[Mult Advisors] Frieman Green	E A J M	Kennel	Charles F	1964	Low Frequency Stability of Spatially Non-Uniform Plasmas	P H Rutherford H Lashinsky T E Stringer H E Petschek L Spitzer M Schwarzschild G B Field
[Mult Advisors] Goldberger Sharp	M L David	Gilman	Frederick J	1965	Baryon Electromagnetic Mass Differences	R Blankenbecler R Dashen B Kayser H Abarbanel

Advisor		Student	Year	Dissertation Title	Others Acknowledged
[Mult Advisors] O'Neill Salmon	G K Graeme	Gezelter Joseph	1967	Charge Exchange Scattering of K <sup>+</sup> Mesons on BE9 at .970 GEV/c	F M Murphy E S Miller R Grismore
[Mult Advisors] Hamilton Phillips McCullen [Arizona] Ames [Stony Brook]	D R E A J D  Oakes	Jackson, Andrew D	1967	The Spins and Moments of Sb117 and Sb 118m	T Kuo G J Garrett
[Mult Advisors] O'Neill Salmon	G K Graeme	Murphy Frederick V Jr	1967	Elastic Scattering of K <sup>+</sup> Mesons by Be9 at 950 MeV/c	J Gezelter H Fishman
[Mult Advisors] Hamilton Phillips McCullen [Arizona] Ames [Stony Brook]	D R E A J D  Oakes	Garrett Geoffrey J	1968	The Spins and Magnetic Dipole Moments of K45 and Sb120	collaborator] A D Jackson

Advisor		Student	Year	Dissertation Title	Others Acknowledged
[Mult Advisors] Hooke Warfield Stix	W M G T H	Uman	1968	An Experimental Study of Ion Cyclotron Waves in a Hot Plasma	J Sinnis M A Rothman R A Paladino
[Mult Advisors] Hamilton Phillips	D R E A	Rogers	1969	The Nuclear Spins and Moments of Sb119 and Sb115	O Ames [Stony Brook] J D McCullen A D Jackson B Caserberg
[Mult Advisors] Devlin Mischke	T J R E	Shepard	1969	Neutron-Proton Charge-Exchange Scattering Between 600 MeV/c and 2000 MeV/c	J Solomon B Ryan E Cecil A Kanovsky D Miller [Princeton-Penn Accelerator] M G White W D Wales T J Droge K Wright J Metzger V Bearg V Fitch

Advisor		Student	Year	Dissertation Title	Others Acknowledged	
[Mult Advisors]		Chung	Kuk Pyo	1970	Nonlinear Functional Analysis and Numerical Computations of the Strong Interaction S-Matrix: Applications to Pion-Pion Dispersion Relations	J A Wheeler R Warnock E P Tryon E P Wigner R C Gunning P R Garabedian
Blankenbeckler	R					
Goldberger	M L					
Schwarz	John H					
[Mult Advisors]		Oddone	Piermaria Jorge	1970	Deuteron – Deuteron Elastic Scattering at 2.20 GeV / c	C N Yang R Glauber V Franco D Harrington
Goshaw	Alfred					
Bazin	Maurice					
Sun	Chi Ree					
[Mult Advisors]		Buttram	Malcolm T	1970	A Measurement of the Neutral Branching Ratios of the ETA Meson	J Cronin A Bershback K Wright B Gibbs
Kreisler	M N					
Mischke	R E					

Advisor		Student	Year	Dissertation Title	Others Acknowledged
[Mult Advisors] Hauser Kreisler Mischke	M G	Dakin  James T	1971	An Experimental Study of Omega Neutral Decays	J Ritsko
	M N				B Webb
	R E				H Edwards
					F Schwarz
					M Bowers
					A Candelori
					V Quere
					H Ringle
					G Tipi
					V Bearg
					P Crean
[Mult Advisors] Bargmann Wightman	V	Glass  Andrew Stuart	1971	Lorentz-Tensors and Relativistic Wave Equations	[U Br. Columbia]
	A S				G Gogola
					W Opehchowski
					G Bluman

Advisor		Student		Year	Dissertation Title	Others Acknowledged
[Mult Advisors] Piroué Smith	Pierre A	Remmel	Ronald S	1971	An Experimental Study of the Tau Matrix Element	[collaborators] W T Ford P A Souder A Lemonick [grad students] P Ingalls P Brill K Subbarao K Eppley M Miller C Borso
	A J S					
[Mult Advisors] Cronin Hoffman	J W C M	Shochet	Melvin Jay	1972	An Experimental Study of the Two-Photon Decays of the Neutral K Mesons	M Banner C M Hoffman B C Knapp
[Mult Advisors] Abarbanel Saunders	H L M	SubbaRao	Krishnappa	1972	I Multiperipheral Theory of Massive Lepton Pair Production II Corrections to the Equivalent Photon Approximation for Two- Photon Processes	none

Advisor		Student		Year	Dissertation Title	Others Acknowledged
[Mult Advisors] Adelberger Garvey	Eric G T	Ohanian	Roy Sourene	1973	Two-Nucleon Pickup Reactions from Oxygen-18	J Comfort R Del Vecchio J B McGrory J Bussoletti P Ingalis R Ayers
[Mult Advisors] Wilkinson Groth	D T Edward J	Rudnick	Lawrence	1974	Search for Short Time-Scale Radio Flucuations	none
[Mult Advisors] Callan Gross	Curtis G D	Coote	Nigel C T	1975	The Renormalisation Group and Scaling at High Energy in Yukawa Field Theory	none
[Mult Advisors] Wilkinson, D T Hauser, M G	D T M G	Hannah	Eric Cabot	1975	Superconductivity in Small Metal Bridges	[colleague] C Swanson
[Mult Advisors] Hoffman, C M Smith, A J S	C M A J S	Newman	David E	1975	An Experimental Study of Sigma Beta Decay	F Shoemaker G Sanders M Witherell J Branson

Advisor		Student		Year	Dissertation Title	Others Acknowledged
[Mult Advisors]		Riml	Harold O	1975	Unloc Theory	none
Adler	S L					
Bargmann	V					
Christ	N H					
Dashen	R F					
Goldberger	M L					
Peebles	P J E					
Tiktopoulos	G S					
Wightman	A S					
[Mult Advisors]		Fields	John R	1976	Inelastic Electron Scattering in Lithium Fluoride	[grad student] P Payne
Gibbons	P C					
Schnatterly	S E					
Ritsko	John J					
[Mult Advisors]		Hoffman	Alan Wayne	1976	Television Photometry of Galaxies in Clusters	[grad students] M J Geller L Rudnick
Corey	Brian E					
Davis	Marc					
Loh	Edwin-Din					
Meyer	S S					
Seldner	Michael					
Tremaine	S D					
Wilkinson	D T					



Advisor		Student	Year	Dissertation Title	Others Acknowledged
[Mult Advisors]		Marmar	1977	Transport of Injected Impurities in the ATC Tokamak	T K Chu D Dimock H Furth R Goldston E Hinnov S Hirshman L Johnson E Mazzucato A Rechester P Rutherford S Schnatterly C Daughney E Tolnas V Corso S Hand F Shoemaker
Cecchi	Joseph	Earl S			
Cohen	S A				

Advisor		Student	Year	Dissertation Title	Others Acknowledged
[Mult Advisors] Yamada Hendel	M	Seiler	1977	Linear and Nonlinear Development of a Lower- Hybrid Wave Driven by a Perpendicular Ion Beam	L Gereg
	Hans				P K Kaw T H Stix F W Perkins V Arunasalam T K Chu D K Owens H Ikezi [Bell Labs]
[Mult Advisors] Coyne Sadrozinski	Don H	Shinsky	1978	Inclusive Particle Distributions in the Psi and Psi Prime Decays	G K O'Neill
[Mult Advisors] Dashen Yaffe	Roger Larry	Laughton	1980	The Physics of Meron Pairs I Introduction, Motivation, and Formalism II The Bare Activity	S Wolfram [Caltech] E Loh D Kessler H Levine

Advisor	Student	Year	Dissertation Title	Others Acknowledged
[ No identifiable advisor ]	Hofstadter Robert	1939	On the Infrared Absorption by Light and Heavy Formic and Acedic Acids, with Special Regard to the Problem of the Hydrogen Bond	L G Bonnor R C Herman R Brattain Taylor Menzies Eyring Turkevich [Chemistry]
[ No identifiable advisor ]	Sutton R B	1943	A Report on a Method for Obtaining the Relation Between the Range and the Energy of High Energy Protons	none
[ No identifiable advisor ]	Stipe J Gordon Jr	1944	Penetration in Soil [Interim Memorandum NO 30 to the Chief of EngineersUnited States Army]	none
[ No identifiable advisor ]	Green Melville S	1952	Brownian Motion and the Theory of Irreversible Phenomena	none

Advisor		Student	Year	Dissertation Title	Others Acknowledged
[ No identifiable advisor ]	Kouts	Herbert J C	1952	An Investigation into Certain Features of the Motion of Rigid Charge Distribution	none
[ No identifiable advisor ]	Berry	Richard E	1958	Electron Spin Resonance in Aluminum	none
[ No identifiable advisor ]	Mitler	Henri E	1960	A Shell Model Analysis of Calcium Isotopes	none
[ No identifiable advisor ]	Jasperson	Stephen Newell	1968	Optical Reflectance Studies of Silver Foils in the Range 3000 to 6000 Å	none
[ No identifiable advisor ]	Bower	Richard H J	1970	S-Matrix Theory of Low Energy Neutron-Deuteron Scattering	none
[ No identifiable advisor ]	King	Rober A	1976	Multiplexed Fabray Perot Interferometers	none
[ No identifiable Princeton advisor ]	Shulman	Carl	1957	Quantum Effects in the Exchange of Energy Between Free Electrons and Radio Frequency Fields	D O North

Advisor		Student	Year	Dissertation Title	Others Acknowledged
[ No identifiable Princeton advisor ]		Lee			
		Kai Nien	1971	Low-Temperature Properties of the Light Rare-Earth Hexaborides	[Stanford] R Bachmann S Doniach R M White
Geballe [Stanford]	T H				J C Nickerson B Bell M E Fisher [Cornell] [Princeton] S E Schnatterly G T Garvey A S Wightman J J Hopfield

Advisor		Student	Year	Dissertation Title	Others Acknowledged	
[ No identifiable Princeton advisor ]	Bahcall [Inst Adv Study]	Sarazin,	Craig Leigh	1975	The Role of Dust in H II Regions	G Neugebauer
						C R O'Dell
						E Leibowitz
[ No identifiable Princeton advisor ]	A	Reiman	Allan H	1977	Space-Time Evolution of Nonlinear Three-Wave Interactions	E E Salpeter
						W Press
						[Astronomy]
[ No identifiable Princeton advisor ]	Drell [SLAC]	Svetitsky	Benjamin	1980	Dynamical Symmetry Breaking in Lattice Gauge Theories	D Morton
						L Spitzer
						M Jura
[ No identifiable Princeton advisor ]	Sidney	Svetitsky	Benjamin	1980	Dynamical Symmetry Breaking in Lattice Gauge Theories	K Davidson
						M Rees
						E Purcell
[ No identifiable Princeton advisor ]	Bahcall [Inst Adv Study]	Sarazin,	Craig Leigh	1975	The Role of Dust in H II Regions	D Kaup
						[Clarkson College]
						F Chambers
[ No identifiable Princeton advisor ]	A	Reiman	Allan H	1977	Space-Time Evolution of Nonlinear Three-Wave Interactions	C Kearney
						[SLAC]
						H Quinn
[ No identifiable Princeton advisor ]	Drell [SLAC]	Svetitsky	Benjamin	1980	Dynamical Symmetry Breaking in Lattice Gauge Theories	M Weinstein

## Appendix D: Supervision of Physics Dissertations and Master's Theses at Texas, 1976 – 1990

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Antoniewicz	Peter	Rodriguez	Robert	1979	Theory of Interfacial Phenomena in Binary Fluids	PhD	L Shepley L Frommhold J Swift F DeWette R Little J C Thompson
Antoniewicz	Peter A	Lee	William W L	1989	Electron Bound States in the Vicinity of Two Orthogonal Surfaces	PhD	
Antoniewicz	Peter R	Hollox	Desmond M	1989	Quantum States by Iterative Descrete Spectral Analysis	PhD	none
Antoniewicz	Peter R	Gata	Mário A	1990	Vibrational Spectroscopy of Adsorbates in Scanning Tunneling Microscopy	PhD	J Thompson A deLozanne F de Wette

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Antoniewicz	Peter R	Meixner	William C	1976	The Effective Polarizabilities of Atoms Absorbed on Metal Surfaces	PhD	W D McCormick J P Alldredge F A Matsen J D White
Antoniewicz	Peter R	Ballester	Jorgé L	1989	Electron States on Clusters and Microdrops	PhD	R Smoluchowski [comm] A Campion, J C Thompson, W D McCormick N Dominguez
Baer	Helmut W	Harvey	Carol J	1984	The Elastic and Inelastic Scattering of $\pi^+$ and $\pi^-$ from $^{34}\text{C}$ and $^{36}\text{C}$ Measured at $T_\pi = 164$ MeV	PhD	C F Moore W J Braithwaite J Johnstone
Becker	M F	Jhee	Yoon Kyoo	1984	Charged Particle Emission from Silicon During Multiple-Pulse Picosecond Laser Induced Damage	PhD	R M Walser R W Bene A A Dougal H L Marcus



Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Becker	Michael F	Jee	Yong	1987	Multiple Pulse Laser Induced Damage of Single Crystal Metal Surfaces Under 1.06 $\mu$ Pulsed Laser Radiation	PhD	R M Walser L K Rabenberg R W Bene G A Hallock H L Marcus Y K Jhee M Bordelon J Mauger
Beil	Herbert L	Saltzman	Barry J	1981	The Feasibility of a Ring Stabilized Plasma Reactor in the Lee-Van Dam Limit	M A	none
Bené	R W	Schaffer	William J	1977	Interfacial Silicide Formation on Nickel-Silicon Thin Film Couples	PhD	none
Bengston	R D	Divatia	Alaka	1978	Conductivity Measurements of Low Temperature Plasma	M A	C W Wharton J C Thompson C Krohn M Sternberg

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Bengston	Roger	Pease	Dennis C	1978	An Experimental Study of High Frequency Plasma Wave Effects in Hydrogen	M A	B Yant J Key G Caldwell D Patterson A Macmahon T Pittman D Blejer
Bengston	Roger D	Empson	Kevin L	1988	Charge Exchange Measurements on the Texas Experimental Tokamak	M A	none
Bengston	Roger D	Lin	John Wei-ly	1990	The Investigation of the Toroidal Distribution of the Electron Cyclotron Resonant Heating Waves in the Texas Experimental Tokamak	M A	D Sing K Carter T Herman K Gentle C P Ritz T Rhodes H Lin J Jagger

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Bengston	Roger D	Eckstrand	Stephen A	1980	An Investigation of Runaway Electrons in the PRETEXT Tokomak	PhD	K W Gentle M E Oakes P E Phillips M Fink
Bengston	Roger D	Benesch	Jay F	1981	Breakdown in the PRETEXT Tokomak	PhD	J Keto, S Mahajan E Powers M Rosenbluth L Frommhold
Bengston	Roger D	Gandy	Rex F	1981	An Investigation of Microwave Emission from the PRETEXT Tokomak	PhD	K W Gentle M E Oakes P E Phillips F L Hinton J Benesch S Eckstrand S Eways T Kochanski

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Bengston	Roger D	Synakowski	Edmund J	1988	Light Impurity Studies on TEXT Using Charge-Exchange Recombination Spectroscopy	PhD	K Gentle A Wooton P Valanju J Jagger D Terry D Booth H Ouroua
Bengston	Roger D	Ouroua	Abdelhamid	1989	Ion Thermal Diffusion in the Texas Experimental Tokamak	PhD	A J Wooton R D Hazeltine E J Powers K W Gentle J Jagger
Bengston	Roger D	Thomas	Dan M	1983	Investigation of Edge Neutral on the ISX-B Tokamak Using a Low Energy Charge Exchange Analyzer	PhD	[ORNL] H Nielson R Phaneuf F Meyer J Hale D Gregory C F Barnett J Watkins J Joyce

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Bengston	Roger D	Wicks	David W	1982	A Spectroscopic Method for Measuring the Electron Confinement Time in the PRETEXT Tokomak	M A	none
Bengston	Roger D	Thomas	Dan M	1979	Impurity Removal by Discharge Cleaning in the PRETEXT Tokomak	M A	E Kluth J Benesch S Eckstrand R Michie D Pease K Carter M Prouty J Joyce
Bengston	Roger D	Cook	Richard W	1985	Observation and Analysis of Current Carrying Plasmas in a Railgun	M A	E Varzan V Alexander M Kreisler E Golowich R Zowarka D Peterson J Upshaw D Weeks

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Bengston	Roger D	Kaplan	David J	1976	A Chemical-Physical Model of Plasma Formation in the Texas Turbulent Torus	PhD	K W Gentle H D Campbell P Phillips N Wolf R Stinnett W L Rowan
Bengston	Roger D	Marsh	Spencer J	1976	Dynamics of Magnetic Field Penetration into a Weakly Ionized Plasma	PhD	M Oakes D H McDaniel M C Clark J Collins C Yates C A Kapetanacos W Rowan
Bengston	Roger D	Sánchez	Alfredo	1976	Study of Helium Plasma Satellites from Suprathermal Wave Fields	PhD	M Oakes H R Griem M Ghiglione P Phillips
Bengston	Roger D	Pease	Dennis C	1982	An Experimental Study of Ion Dynamic Effects on Helium Line Profiles	PhD	P E Philips M E Oakes L Frommhold J Keto K Gentle

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Bengston	Roger D	Lin	Shiow-Hwa	1982	Alfvén Wave Studies on PRETEXT	PhD	M E Oakes D W Ross S M Mahajan G-L Chen K W Gentle E J Powers H H Woodson
Bengston	Roger D	Rhodes	Terry L	1989	Experiments on Turbulence and Transport in the Edge Plasma of the TEXT Tokomak	PhD	K Carter T Herman L Hong D Booth H Ouroua E Solano
Bengston	Roger D	Boedo	José A	1990	Experimental Investigation of ECH Driven Suprathermal Populations on the TEXT Tokomak	PhD	none

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Berk	Herbert L	Kwon	Oh Jin	1989	A Study of Runaway Electron Confinement and Theory of Neoclassical MHD Turbulence	PhD	P H Diamond P N Rosenbluth D Baldwin A Wootton
Berk	Herbert L	Mattor	Nathan	1989	New Developments in the Theory of Ion-Temperature-Gradient Driven Turbulence in Tokomaks	PhD	P H Diamond, M N Rosenbluth D E Baldwin R D Hazeltine E J Powers E T Vishniac
Berk	Herbert L	Gang	Fongyan	1990	Kinetic Theory of Trapped Turbulence in Sheared Magnetic Fields and Statistical Theory of Two-Field Drift Wave Turbulence	PhD	M N Rosenbluth D E Baldwin R D Bengston E Vishniac



Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Berk	Herbert L	Stotler	Darin P	1986	The Effect of Energetic Particles on Mirror and Tokamak Plasmas	PhD	M Rosenbluth J Van Dam T Tajima R Hazeltine W Horton J Dollard P H Diamond
Bernstein	R B	Newton	Kenneth R	1977	Nitrogen Atomic Beam Source and a CW Hydrogen Chloride Laser	M A	J Herrmann R Love T Mayer H Pang K Wu S Hayashi B Bickes
Boggs	James E	Schmeidekamp	Ann Marie B	1976	Ab Initio Investigations of: A Inversion Barriers of some Nitrogen and Phosphorus Compounds; B Valence Shell Electron Pair Repulsion Model	PhD	S Skaarup P Pulay D W Cruikshank

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Bohm	Arno	Teese	Robert B	1977	The Semileptonic Hyperon Decays in a Spectrum-Generating SU[3] Framework	PhD	A Garcia J Werle
Bohm	Arno	Moylan	Patrick J	1982	Applications of the DeSitter Group in Quantum Mechanics	PhD	
Bohm	Arno	Aldinger	Randolph R	1984	The Quantum Relativistic Rotator and Correspondence to the Covariant Noncanonical Treatment of the Syracuse Version of the Quantum Relativistic String	PhD	L C Biedenharn C B Chiu J E Gilbert Y Ne'eman P Kielanowski M Tarlini
Bohm	Arno	Magnollay	Pascal L	1986	Quantum Relativistic Rotator and Oscillator Models and Their Applications in Hadron Physics	PhD	P Kielanowski M Loewe

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Bohm	Arno	Loewe	Mark E	1989	SO [3,2] as a Spectrum-Generatiing Group for Relativistic Quantum Mechanical Extended Objects	PhD	A R Bohm J E Gilbert Y Ne'eman G Sudarshan C Teitelboim J A Wheeler
Bohm	Arno	Kmiecik	Micheal A	1990	The Spectrum Generating Group SO[3,2] Applied to the Radiative Decays of the Nucleon Resonance	PhD	M Loewe L J Boya
Braithwaite	W J	Boyer	Kenneth G	1976	A Spectrometer for Neutral Pions of Energies Through 200 MeV	MA	C F Moore
Braithwaite	Wilfred	Cottingame	William B	1985	Inelastic Pion Scattering from $_{34}\text{C}$	PhD	G R Burleson

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Brock	J R	Tropp	Richard J	1979	Studies in Aerosol Physics and Atmospheric Electricity	PhD	A W Nolle M Fink J W Barlow; R W Miksad
Browne	J C	Struensee	Michael C	1984	Uses of Dipole Oscillator Strength Sum Rules in Second Order Perturbation Theory	PhD	E Shipsey
Buckman	A Bruce	Richardson	Philip I	1978	Optical Properties of Thin Amorphous WO <sub>3</sub> Films	M A	W D McCormack
Candelas	Philip	Lynker	Monika	1988	Heterotic String Compactification on Conformal Field Theories	M A	F Gaus
Candelas	Philip	Howard	Kenneth W	1984	Vacuum Stress in Schwarzschild Spacetime	PhD	B Whiting B Jensen

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Candelas	Philip	Jensen	Bruce P	1985	Vacuum Polarization on Black Hole Spacetimes	PhD	B Whiting K Howard D Sciama B Carter
Candelas	Philip	Lütken	Carsten A	1986	Vacuum Structure	PhD	F Ravndal C Burgess B Allen C Ordoñez X de la Ossa
Candelas	Philip	Ordóñez Montenegro	Carlos R	1986	Graviton Dominance in Quantum Kaluza-Klein Eleven-Dimensional Supergravity	PhD	C DeWitt W Fischler J Polchinski S Weinberg
Candelas	Philip	Schimmrigk	Rolf	1989	Heterotic Vacuum Structure	PhD	A Dale A Lütken M Lynker S de Alwis W Fischler J Polchinski M Eastwood

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Candelas	Philip	Lynker	Monika	1990	Heterotic String Compactification on Conformal Field Theories and Calabi-Yau Manifolds	PhD	R Schimmrigk F Gauss R Lang V Kaplunovsky A He E Derrik A Ishaq
Carmichael	Howard	Wolinsky	Murray	1990	The Positive P Approach to Nonlinear Problems in Quantum Optics	PhD	J Kimble T Griffy A Gleeson C Chiu
Centrella	Joan	Clancy	Sean P	1985	Percolation Theory and the Large Scale Structure of the Universe	M A	R Matzner A Melott R Minich M Van-Duong E Vishniac
Chiu	Charles	Tata	Xerxes R	1981	On the Composite Structure of Elementary Particles	PhD	D Dicus

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Chiu	Charles	Eubank	Stephen G	1986	A Re-Examination of the Migdal-Kadanoff Renormalization Group Equations and Construction of the First Order Martinelli-Parisi Correction for Lattice Gauge Theories	PhD	A Font K Kallianpur C Ordonez U Yajnik
Chiu	Charles B	Wilson	Sanford L	1987	QCD Sum Rules and the Static Properties of the $1/2^+$ Baryon Octet	PhD	J Pasupathy
Chiu	Charles B	Hossain	Monowar	1978	The Study of F-Pomeron Identity, T-min Effect, and Double Counting Problem in the Dual Topological Unitarization Approach to Hadron Physics	PhD	D M Tow A Bohm A Dicus W C Shieve E C G Sudarshan

	Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Coker	W R	Darkwi	Ali Y		1984	The Antibound State of NTP S-Wave Interaction	M A	T Tamura J Kirtley
Coker	W R	Ray	Robert L		1977	Microscopic Approaches to the Intermediate Energy Nucleon-Nucleus Optical Potential	PhD	T Tamura T Udagawa G W Hoffman [MIT] J W Negele
Coker	W R	Lynch	James F		1978	Proton and Pion Elastic Scattering from Nuclei as a Probe of Nucleon-Nucleon Correlations	PhD	L Ray [LASL]
Collins	R L	Moylan	Patrick J		1978	Magnetic Suseptibility Measurements and 57 Fe Mössbauer Spectra of Fe [8-QS] $_2\text{Cl} \cdot 1 \frac{1}{2} \text{H}_2\text{O}$ and Related Compounds	M A	W E Millett A Böhm R Dickinson W A Baker R Worell
Collins	R L	Peterman	Keith R		1978	Non-Classical Brownian Motion	M A	C W Horton G E Ellis [ARL]



Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Collins	R L	Eakin	Richard T	1984	The Effects of Temperature and Line Overlap in the Analysis of Multiple Line Mössbauer Spectra	PhD	W E Millett W C Shieve H L Swinney P J Riley R P Wagner L O Morgan
Davids	Cary	Parks	Lewis A	1976	A Study of the Decay of New Neutron Rich Isotope Titanium-53 using Fast Pneumatic Target Transfer Systems	PhD	R Pardo
Davids	Cary N	Pardo	Richard C	1976	I The Decay of Arsenic-68 and Excited States in Arsenic-68; II The Decay of Manganese-59	PhD	S L Tabor
de Wette	F W	Zhao	Jianai	1990	Phonon Spectrum and Interface Phonons GaAs-AlAs Superlattices	PhD	none

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
de Wette	F W	Ma	Simeon K-S	1976	Surface Anharmonicity and Size Effects of Linear Chains and Surface Linear Expansion of Cubic Metal Crystal Slabs	PhD	G P Alldredge
DeWitt	B S	Pacheco Bellet	Jorgé	1978	Numerical Simulation of Spherically Symmetric Matter in Relativity	PhD	L Shepley T Criss M Duncan K Barndett
DeWitt	Bryce	Guy	Richard W	1979	Vacuum Polarization in Curved Spacetime	PhD	LShepley R Matzner S Dowker P Chrzanowski C Hart V Sandberg M Brown B Nelson
DeWitt	Bryce	Rowher	Richard J	1985	The Guage Invariant Effective Action in Cosmology	PhD	none

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
DeWitt	Bryce	Rao	Ravindra N	1986	Finiteness of Quantum Gravity	PhD	R Woodward P Candelas R Boyer J Moore
DeWitt	Bryce	Anderson	Berton A	1986	Non-Trivial Topology in Quantum Theory	PhD	S Carlip R Jordan
DeWitt	Bryce	Jordan	Richard D	1986	Expectation Values in Quantum Gravity	PhD	R Woodard B Jensen K Holcomb
DeWitt	Bryce	Carlip	Steven J	1987	Path Integrals for the Green-Schwarz Superstring	PhD	J Polchinski G Gilbert W Fischler J Hughes J Liu H LaRoche

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
DeWitt	Bryce S	Hart	Charles F	1981	Theory and Application of a Gauge Invariant Effective Action to the Multi-Loop Renormalization of Non-Abelian Gauge Theories	PhD	none
DeWitt	Bryce S	Manogue	Corinne A	1984	The Vacuum in the Presence of Electromagnetic Fields and Rotating Boundaries	PhD	D Brown
DeWitt	Bryce S	Foong	See Kit	1989	Foundations of the Lattice Quantization of Sigma Models	PhD	J DeLyra T Gallivan C DeWitt-Morette J Polchinski
DeWitt	Bryce S	Gallivan	Timothy E	1989	Numerical Insights into Renormalization: The 0[2,1] Sigma Model	PhD	J L DeLyra S K Fong

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
DeWitt [aka DeWitt- Morette]	Cecile	Zhang	Tian Rong	1985	Path Integral Formulation of Scattering Theory with Application to Scattering by Black Holes	PhD	R Matzner
DeWitte- Morette	Cecile	Park	Seon Hee	1989	2 + 1 Dimensional Quantum Field Theories in the 1/N Expansion	PhD	L J Boya C Friedman J Polchinski B Rosenstein
DeWitt- Morette	Cecile	Jacobson	Theodore A	1983	Spinor Chain Path Integral for the Dirac Electron	PhD	L S Schulman W K Wothers R Mauri D Finkelstein

Advisor			Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
DeWitt-Morette	Cécile	Doering	Charles R		1985	Functional Stochastic Differential Equations: Mathematical Theory of Nonlinear Parabolic Systems with Applications in Field Theory and Statistical Mechanics	PhD	W Horsthemke K Bichteler B DeWitt D Dicus K Osterwalder S Weinberg
DeWitt-Morette	Cécile	Young	Alice M		1985	Change of Variable in the Path Integral Using Stochastic Calculus	PhD	L Schulman C Doering
DeWitt-Morette	Cécile	Low	Stephen G		1985	Path Integration on Spacetimes with Symmetry	PhD	L Schulman P Candelas A Lütken, B Jensen, C Doering
DeWitt-Morette	Cécile	La Roche López	Humberto J		1986	Topics in Quantum Mechanics with Application to String Models	PhD	C J Isham [Imperial College, London] M Henneaux M Awada

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
DeWitt-Morette	Cécile	Trisnadi	Jahja I	1989	Compositions of Bosonic String Amplitudes with Cylinder Topology	PhD	J Polchinski S Carlip S Della Pietra M Henneaux L Chang-Yeong M Rubin L Shepherd
DeWitt-Morette	Cécile	Sheeks	Benny J	1980	Some Applications of Path Integration Using the Prodistribution Method	PhD	B Nelson B S DeWitt W W Robertson W C Schieve L C Shepley
Diamond	Patrick H	Chiueh	Tzihong	1985	Theoretical Studies of Magnetized Plasma Turbulence: Ion-Cyclotron Turbulence, and its Applications to Tokamak Edge Phenomena	PhD	M N Rosenbluth P W Terry J N Leboeuf R H Berman

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Dicus	Duane A	Letaw	John R	1981	Quantum Field Theory and Quantized Detectors in Stationary Coordinate Systems	PhD	J Pfautsch P Candelas D Deutsch B DeWitt U Gehrlach D Sciama W Unruh J A Wheeler
Dicus	Duane A	Schreiner	Henry F	1982	Pion Proton Bremsstrahlung and the Delta Magnetic Moment	PhD	J Swift G W Hoffmann A Gleeson C Chiu
Dicus	Duane A	Kallianpur	Kalpana J	1986	The Effects of Nonstandard Triple Gauge Interactions on Photoproduction and Pair-Production of W Bosons	PhD	S Willenbrock X Tata U Yajnik E Dunn
Dicus	Duane A	Vega	Roberto	1988	WW Physics and the Higgs Boson at SSC Energies	PhD	S Weinberg J Polchinski



Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Dicus	Duane A	Nagao	Gregory G	1989	The Spontaneous Symmetry Breaking of Closed Strings into Open Strings	PhD	S Hwang M Clements S Della Pietra T Imbo J Trisnadi S Blau R Schimmrigk
Dicus	Duane A	Kao	Chung	1990	Production of Gauge Bosons and Higgs Bosons from Gluon Fusion	PhD	R Barrar C Chiu N Deshpande B DeWitt G Hamrick J Isenberg W-L Lin
Dicus	Duane A	Kolb	Edward W, Jr	1978	Astrophysical Limits to Weak Interaction Phenomenology	PhD	D Tibbs D Schram R Wagoner V Teplitz E C G Sudarshan
Dicus	Duane A	Down	David M	1985	Results in Finite Temperature Quantum	PhD	none

Advisor			Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
						Electrodynamics		
Dicus	Duane A	Imbo	Tom D		1988	Topological Phases in Quantum Theory	PhD	B Celmaster G Hamrick C S Imbo G Sudarshan
Dollard	John	Bourgeois	Brian A		1979	Quantum Mechanical Scattering Theory for Long-Range Oscillatory Potentials	PhD	C Friedman K Bichteler G Hamrick C Radin
Downer	M C	Focht	Glenn B		1990	The Frequency Shifting of Femtosecond Laser Pulses	PhD	P Antoniewicz M Fink M Becker L Frommhold
Downer	Mike	Reitze	David H		1990	Femtosecond Dynamics of Phase Transitions in Carbon and Silicon	PhD	P Antoniewicz J Erskine J Thompson

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Drummond	William E	Cornet	Edward P	1976	Growth of the Electron Cyclotron Mode in a Relativistic Electron Beam by Helical Linear Structures	PhD	M L Sloan W W Rienstra J R Thompson G I Bourianoff H V Wong J R Uglum
Dulikravich	George S	Kennon	Stephen R	1987	Numerical Solution of Weak Forms of Conservation Laws on Optimal Unstructured Triangular Grids	PhD	G F Carey L J Hayes J T Oden D M Young
Dulikravich	Thomas A	Foreman	Terry L	1987	A Frequency Dependent Ray Theory	PhD	none
Ehlers	Jürgen	Hibler	David L	1976	Construction and Some Properties of the Most General Homogenous Newtonian Cosmological Models	PhD	L Shepley

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Ellis	G E	Mitchell	Stephen K	1976	An Extension of Langer's Asymptotic Solution with Applications to Ocean Acoustics	PhD	C M McKinney L D Hampton C L Wood C W Horton Sr A C Kibblewhite A O Williams, Jr
Erskine	James L	Hadjarab	Fawzi	1984	Imaging Properties of the Spherical Analyzer	M A	M Fink A Sellidj R Strong A Donoho M Onellion
Erskine	James L	Hsieh	Tzu-Yen	1988	Epitaxial Growth and Magnetic Properties of Single-Crystal [sic] Thin Iron Films Grown on Silver[100] Surface	M A	J Aray-Poche C Ballentine B-S Fang M Thompson

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Erskine	James L	Jeong	Eue-Jin	1989	Observation of Odd Symmetry Surface Phonon Modes on Ni[100] and Ag[100] Surfaces Using the New Multi-Channel High Resolution Electron Energy Loss Spectrometer	PhD	A K Sellidj J Yater J Chen
Erskine	James L	Ballentine	Craig A	1989	Magneto-Optical Studies of Fe, Ni, V, and Pd Ultrathin Films on Ag[100], Ag[111], Cu[100], Cu[111] Single Crystal Substrates	PhD	J Araya-Pochet R Fink J Chen D-J Huang
Erskine	James L	Li	Ying	1990	High Resolution Electron Energy Loss Spectroscopy Studies of Clean and Hydrogen Covered Niobium Surfaces	PhD	none

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Erskine	James L	Ovrebo	Gregory K	1981	An Electron Spectrometer for Use with Synchrotron Radiation	M A	C E Kuyatt A Galejs [NBS] M Fink J McClelland
Erskine	James L	Stevens	H Adam	1983	Angle Resolved Photoemission Spectroscopy: A System for Routine Data Acquisition with Synchrotron Radiation	M A	M Fink G K Ovrebo A Turner A Donoho
Erskine	James L	Sellidj	Abdelkrim	1984	A Lens System for an EELS Electron Energy Analyzer	M A	M Fink F Hadjarab
Erskine	James L	Chang	Yu-Jeng	1983	Electronic Properties and Interface Microstructures of Nickel Silicides on Silicon Substrates	PhD	T Tamura T Udagawa A M Turner R L Strong D M Bylander L Kleinman J C Thompson

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Erskine	James L	Turner	Arthur M	1983	Bulk and Surface Electronic Structure of Iron Determined by Angle-Resolved Photoemission	PhD	none
Erskine	James L	Thompson	Matthew A	1988	Electronic and Magnetic Properties of Ultra-Thin Crystalline Films	PhD	M F Onellion A W Donoho J P Woods L
Erskine	James L	Araya Pochet	José A	1988	Magneto-Optical Studies of Fe, Ni, and V Epitaxial Ultra Thin Films on Ag[100] and Ag[111] Substrates	PhD	C A Ballentine
Erskine	James L	Sellidj	Abdelkrim	1989	Study of Clean and Nitrogen Covered W[100] Surface at Low Temperatures Using EELS, LEED, and UPS	PhD	D Lowe L Deavers J Martinez H Williamson H Murphy M Ghaleb

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Erskine	Jamee L	Woods	Joseph P	1986	High Resolution Electron Energy Loss Spectroscopy Studies of Clean and Hydrogen Covered Tungsten	PhD	L Deavers G Lucas J Reed D Lowe J Martinez H Williamson; M Thompson A Kulkarni
Erskine	James L	Breaux	Louis H	1985	Optical Design Optimization of a Six-Meter Toroidal Grating Monochromometer	M A	none
Erskine	J L	Strong	Roger L	1984	Adsorbate Structure Determination Using High-Resolution Electron Energy Loss Spectroscopy and Lattice Dynamical Calculations	PhD	J Erskine F de Wette B Firey L Kleinman M Bylander A Turner



	Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Fair	James R	Prado		Miguel	1986	The Bubble-to-Spray Transition on Sieve Trays: Mechanisms of the Phase Inversion	PhD	A R Paffen
Fink	Manfred	Kelley		Michael H	1976	Determination of the Quadrapole Moment of N <sub>2</sub> from High Precision Electron Diffraction Data	MA	none
Fink	Manfred	Miller		Bruce R	1978	Effect of Finite Scattering Geometry on Measures Electron Differential Cross-Sections	M A	none
Fink	Manfred	McClelland		Jabez J	1980	Measurements of the Anomalouss Energy Broadening of a Low-Energy Electron Beam	M A	M Ratliff

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Fink	Manfred	Mawhorter	Richard J	1981	An Experimental Determination of Vibrationally-Averaged, Temperature Dependent Structure of CO <sub>2</sub>	M A	D Kohl S Ketkar J McClelland S Bliven M Ratliff D Griswold B Archer
Fink	Manfred	Smith	Larry K	1988	A Proposal for a New Experiment to Measure the Mass of the Neutrino	M A	J Hartley A Mihill A Ross
Fink	Manfred	Multari	Rosalie A	1989	The Design and Construction of a Microwave Ion Source to be Used in the the Duplication of Orbital Altitude Atmospheric Conditions	M A	J Keto D Kohl B Hyde J Measles

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Fink	Manfred	Buell	Walter F	1990	Extension of Electron Diffraction to Biological Molecules	M A	H Wellenstein Y Zhang A Ross A Milhill R Multari S Cook J Robinson L Thuesen
Fink	Manfred	Coffman	John D	1984	Electron-Atom Shadow Scattering: Does It Exist or Not	M A	H Wellenstein J McClelland
Fink	Manfred	White	Cheryl J	1986	A High-Resolution, High Current Density Telefocus Electron Gun for Electron Beam Lithography	M A	J Hartley A Ross T Koonce
Fink	Manfred	Mihill	Arthur G	1988	Recent Studies in Spontaneous Raman Spectroscopy of Low Density Gases	M A	J Hartley J Castro Z Li

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Fink	Manfred	Gregory	Donald C	1976	Experimental Determination of the Densities of the Bond-Forming Electrons in Nitrogen and Carbon Monoxide	PhD	D Kohl P Moore C Schmiedekamp J Arnold G R Wittig J England
Fink	Manfred	Schmeidekamp	Carl W	1976	Experimental Determination by Electron Diffraction of Relativistic, Correlation, and Binding Effects on the Charge Densiity of Krypton and Carbon Dioxide	PhD	P Moore D Kohl D Gregory M Kelley

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Fink	Manfred	Kelley	Michael H	1979	Determination of the Molecular Structure of Dimolybdenum Tetracetate, An Investigation of the Temperature Dependence of the Molecular Structure of Sulfur Hexafluoride by Gas Phase Electron Diffraction	PhD	D Kohl J Keto P Moore D Gregory B Miller J McClelland S Ketkar M Ratcliff C Holder
Fink	Manfred	Miller	Bruce R	1983	On the Accuracy of Molecular Structures Determined from Precise Electron Diffraction Data	PhD	D A Kohn L S Bartell P Moore C Schmeidekamp D Gregory M Kelly S Ketkar J McClelland

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Fink	Manfred	Ketkar	Suhas N	1984	The Scope and Limitations of High Energy Electron Scattering in Obtaining Relevant Structural Information about Atoms and Molecules	PhD	J Keto J Kimble B Miller J McClelland R Mawhorter D Coffman
Fink	Manfred	McClelland	Jabez J	1984	Precise High Energy Electron Scattering: A Tool for the Investigation of Atomic and Molecular Wave Functions	PhD	H F Wellenstein S Ketkar B Miller R Mawhorter D Coffman S Blivan W Miller A Ross

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Fink	Manfred	Mawhorter	Richard J	1985	Electron Scattering Studies of Gas Phase Molecular Structure at High Temperature	PhD	M Andeson N Böwering K Howard M Howard E Jacobsen R Rohwer J Scherbak R Snapp
Fink	Manfred	Hartley	John G	1988	The Structure and Thermodynamics of Alkali Halide Vapors	PhD	D Rankin [Edinburgh] H Schmoranzner [U Kaiserlautern] R Mawhorter
Fink	Manfred	Zhang	Yuheng	1989	Charge Density Correlation Study of Atoms and Molecules by High Energy Electron Scattering	PhD	J Keto R Bonham [Indiana] D Coffman L Thuesen R Multari S Cook R Zhang A Ross

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Fink	Manfred	Bliven	Steven M	1985	Comparison of the Line Charge Model with Computer Simulation and Empirical Results for the Mollenstedt Velocity Analyzer	M A	None
Fischler	Willy	De la Ossa Osaqueda	Xenia C	1990	Quantum Calabi-Yau Manifolds and Mirror Symmetry	PhD	P S Green L Parkes P Candelas G Hamrick J Polchinski S Weinberg A Font A He



Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Fischler	Willy	Dyksta	Hans M	1990	Topics in String Theory and CP Violation	PhD	T Banks J Dai D A Dicus M Dine R Leigh S Paban J Polchinski S Weinberg
Frommhold	Lothar	Borysow	Aleksandra	1985	Collision Induced Absorption in the Far Infrared Titan's Upper Atmosphere	PhD	V Kunde D Jennings [NASA] Ian Dagg G Birnbaum H Sutter P Codastefano P Dore L Nencini;
Frommhold	Lothar W	Brown	Michael S	1989	Binary Collision Induced Light Scattering in Molecular Hydrogen	PhD	A Borysow M Moraldi G Birnbaum M Fink R Taylor

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Gavenda	David	Kost	Alan R	1983	The Generation of Secondary Ultrasonic Wave Packets by Conduction Electrons in Copper	PhD	L Deavers H Williamson J McGuire J England P Coose G Smith
Gavenda	J D	Theis	William M	1977	The Role of Deformation Potential in a Self-Consistent Calculation of Ultrasonic Attenuation in Copper	PhD	P R Antoniewicz CM Casteel B Mulvaney D M Gray J K McGuire J England
Gavenda	J D	Casteel	Carroll M	1978	Open-Orbit Electrons and Ultrasonic Dispersion in Copper	PhD	B Theis J McGuire H Williamson J England
Gavenda	J D	Bailey	Dane C	1987	The Magnetoacoustic Effect in Copper Using Ultrasonic Surface Waves	M A	J C Thompson

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Gavenda	John David	Borden	Brett	1986	Electromagnetic Inverse Scattering and Statistical Estimation Based on Phase Gradient Aspect-Limited Data	PhD	R J Dinger G H Winkler
Gentle	Kenneth W	Rabe	Paul A	1983	Temperature Profiles in the Texas Experimental Tokamak by Thomson Scattering	M A	R Bengston K Gentle S McCool D Blejer
Gentle	Kenneth W	Leifeste	Gordon T	1979	An Experimental Study of Strong Current Driven Plasma Turbulence	PhD	R D Bengston M E Oakes J C Wiley W M Miner J Lohr D Patterson A B Machmanon G Caldwell

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Gentle	Kenneth W	Kochanski	Thaddeus P	1981	Characteristics of Low Frequency MHD Flucuations in the PRETEXT Tokomak	PhD	R D Bengston J Jancarik E J Porwers P E Phillips P Wildi W L Rowan S C McCool R F Gandy
Gentle	Kenneth W	Klepper	Conrad C	1985	An Investigation of Particle Transport through the Measurment of the Electron Source in the Texas Experimental Tokomak	PhD	W L Rowan W J Connally N Mattor B Richards P E Phillips D M Patterson R D Bengston C H Ritz

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Gentle	Kenneth W	Snipes	Joseph A	1985	The Dynamics of Sawtooth Phenomena in the Texas Experimental Tokamak	PhD	A J Wooton R C Isler T P Kochanski P E Phillips W L Rowan T Boyd C Doss D Patterson
Gentle	Kenneth W	Richardson	Rex D	1978	An Experimental Determination of Current Driven Turbulence in a Low Density Torus	PhD	G T Leifeste J Lohr P E Phillips S S Medley P Nielsen R Bengston W Horton, Jr D-I Choi

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Gentle	Kenneth W	Kim	Yong Jin	1989	General Description of Magnetic Flucuations in TEXT	PhD	A J Wooton C P Ritz R D Bengston S C McCool R D Hazeltine G A Hallock T K Herman S B Kim
Gentle	Kenneth W	Snowden	Paul T	1977	Electron Temperature and Density Measurements by X-ray Analysis for the Texas Turbulent Torus	M A	none
Gentle	Kenneth W	Blejer	Daniel	1981	Design Considerations of a Thomson Scattering Systems	M A	P Nielsen P Phillips

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Gibbs	William	Giebink	David R	1980	Relativistic Off-Mass-Shell and Off-Energy-Shell Scattering Theories: An Application of the Rotation and Lorentz Groups	PhD	M Johnson J Louch [LASL] F Cverna D Weiss
Gleeson	A M	Pedigo	Robert D	1977	A Model of Superdense Matter and Its Application to Neutron Stars	PhD	R L Bowers
Gleeson	Austin	Newton	Michael J	1988	A Study of the Effects of Superconductivity on the Elastic Neutrino-Electron and Neutrino-Quark Scattering Process	M A	D Dicus R Matzner D Morgan
Gleeson	Austin	Wheeler	James W	1982	Finite Temperature Neutron Star Matter	PhD	A Gleeson R Bowers D Pedigo

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Gleeson	Austin	Font Villarroel	Anamaria	1987	Four-Dimensional Supergravity Theories Arising from Superstrings	PhD	C Burgess M Quiros F Quevedo W Fischler J Polchinski S Carlip X de la Ossa
Gleeson	Austin M	Raha	Sibaji	1980	Hydrodynamic and Thermodynamic Phenomena in Superdense Matter: Theory and Applications	PhD	none



Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Goetzmann	William	Davies	Shannon M	1985	American Physicists Abroad: Copenhagen, 1920-1940	PhD	H Levi F Aaserud [Bohr Inst] M Messinger J Aubrey T Lowe [NBL-AIP] K Marquis [MIT Archive] M Miller [Denkman Memorial Library, Augustana College] NOTE this appears to be a History Dissertation
Griffy	T A	Yoon	Suk Wang	1983	Parametric Acoustic Conversion in Ocean Sediments	PhD	C W Horton Sr D T Blackstock T J Muir J D Gavenda J A TenCate S Saito R H Wallace H G Frey

	Advisor		Student	Year	Dissertation/Thesis Title	Degree	Others
							Acknowledged
Griffy	Thomas	Knobles	David P	1983	An Investigation of Acoustic Interaction with the Ocean Bottom from Experimental Time Series Generated by Explosive Sources	M A	P Vidmar
Griffy	Thomas A	Pada	Jose M	1990	Interaction of Electromagnetic Signals with Particulate Clouds	M A	R Roberts
Griffy	Thomas A	Miller	Elizabeth L	1990	Propagation of Longitudinal and Sheared Waves Through Ice	M A	none
Griffy	Thomas A	Dixon	Daniel N	1984	Underwater Acoustic Propagation Across a Shallow Range Varying Environment	M A	S K Mitchell L Hampton G Ells

	Advisor		Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Griffy	Thomas A	Byrd	Charles B	1985	Numerical Investigation of Normal Mode Coupling	M A	none
Griffy	Thomas G	Sample	John D	1988	Nearfield Response of a Parametric Receiving Array	PhD	N Chotiros [ARL] R Culbertson J Huckabay G Barnard R Rolleigh M F Hamilton J N Tjøtta S Tjøtta
Guy	William T	Gajewski	Jane B	1986	A Certain Problem in the Conduction of Heat	M A	R W Cain

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Hazeltine	Richard	Waelbroeck	François	1988	The Quasi-Interchange Mode as a Mechanism for Fast Sawtooth Crashes	PhD	W D Drummond A Addemir P J Morrison K W Gentle D Ross A A Ware J Meiss W Miner
Hazeltine	Richard D	Chang	Choon-Seock	1979	Variational Calculation of Electron Response in Plasma Waves, and Impurity Transport in the Collisional Regime with Large Poloidal Electrostatic Variation	PhD	D Ross A A Ware
Hinton	F L	Pandey	Shashi R	1978	Poloidal Mode Structure of Trapped Partice [i.e. Particle] Mode	M A	D W Ross M Oakes
Hinton	F L	Moore	Travis B	1976	Transport Properties of a Tokomak Plasma with Impuriites	PhD	R D Hazeltine J C Wiley

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Hinton	Fred L	Santarius	John F	1979	Numerical Solution of the Drift Kinetic Equation	PhD	P H Gleichauf Jr R B Mitchie D E Spray
Hinton	Frederick	Scott	Jay G	1983	The Effect of Ripple on Alpha Particle Orbits in Tokomaks	M A	A Wolf P Terry W Horton Jr
Hinton	Frederick L	Chen	Gwo-Liang	1981	Kinetic Theory of Alfvén Wave Heating in Tokomaks	PhD	S M Mahajan R D Bengston F L Hinton M E Oakes W Shieve J Benesch C Bolton G Craddock
Hoffman	G W	Blanpied	Gary S	1977	Scattering of 0.8 GeV Protons from Lead-208, Carbon-12, and Carbon 13	PhD	H A Thiessen L Ray W R Coker

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Hoffman	Gerald W	Liljestrand	Roger P	1978	Elastic Scattering Survey Using Polarized Protons at 800 MeV	PhD	H A Thiessen W R Coker L Ray Gary S Blanpied
Hoffmann	Gerald W	McGill	John A	1981	Inclusive Proton Spectra and Total Reaction Cross Sections for Proton-Nucleus Scattering at 800 MeV	PhD	J Amann [LAMPF] R Fergerson C Milner G Burleson M Bartlett
Hoffmann	Gerry	Barlett	Martin L	1980	Forward Angle Quasi-Free Proton-Neutron Analyzing Powers at 0.8 GeV	PhD	John McGill Gerry Hoffmann Bill Bonner Bo Hoistad Gary Blanpied Lanny Ray
Hoffmann	Gerry	Marshall	Jill A	1984	A Measurement of the Wolfenstein Parameters of Proton-Proton and Proton-Neutron Scattering at 500 MeV	PhD	M Bartlett L Ray K Jones J McClelland

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Hoffmann	Gerry	Ferguson	Raymond W	1985	The Spin Rotation Parameter Q for Elastic Scattering of 800 Million Electron-Volt Protons from Oxygen-16, Calcium-40, and Lead-208	PhD	Lanny Ray John McClelland Bill Bonner M Bartlett J McGill J Amann E Millner J Marshall
Hoffmann	Gerry	Ciskowski	Douglas E	1989	Cross Sections and Analyzing Powers of $^{37}\text{N}[p,n]^{37}\text{O}$ at 200 MeV and 494 MeV	PhD	none
Horsthemke	Werner	Hannon	Eugene L	1985	The Effects of Small Inhomogeneities on Nonequilibrium Chemical Reactions in Stirred Flow Reactors	PhD	H Swinney B McCormach J-C Roux [U Bourdeau] I Prigogine

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Horsthemke	Werner	Schumaker	Mark F	1987	Bifurcations in Stochastic Systems and Applications to Superfluid Turbulence	PhD	I Prigogine W McCormick J Swift H Swinney L Glass A Arneodo D Barkley K Coffman
Horsthemke	Werner	Sigeti	David E	1988	Universal Results for the Effects of Noise on Dynamical Systems	PhD	J Pearson M Schumaker D Barkley A Pearson B Roth G Nelson B Jensen S Eubank



Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Horsthemke	Werner	Pearson	John E	1988	Chemical Pattern Formation in Far From Equilibrium Systems	PhD	H L Swinney B McCormick J Vastano W Tam M Golubitsky J Ringland D Sigeti
Horton	C W Sr	Pitre	Richard	1984	On the Application of Horizontal Ray Theory to Acoustic Propagation in the Ocean Waveguide	PhD	T Foreman P Vidmar B Koch K Hawker S Houser J Lindberg D Oakley
Horton	C Wendell Jr	Liu	Jixing	1985	The Linear Instability and Nonlinear Motion of Rotating Plasma	PhD	J Meiss E Powers J Swift H Swinner J Sedlak H Berk S Mahajan

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Horton	C Wendell Jr	Doxas	Isidoros	1988	Two Case Studies of Stochastic Transport: Anomalous Transport in Two Drift Waves, and Collisionless Reconnection	PhD	S Riyopoulos B Scott H Biglari P Lyster
Horton	C W Jr	Miner	Willaim H	1978	Two-Dimensional Structure of the Trapped Electron Mode	PhD	D W Ross J C Wiley
Horton	C W Jr	Brock	David W	1981	Simulations of Nonlinear Problems in Plasma Physics	PhD	D-I Choi A White D Biskamp T O'Niel D Barnes T Tajima
Horton	Claude W Jr	Terry	Paul W	1981	Theoretical Aspects of the Nonlinear Interaction of Drift-Type Instabilities in a Plasma	PhD	D-I Choi W Anderson L Leonard

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Horton	Claude W Sr	Grant	David E	1986	On the Spatial Structure of the Acoustic Signal Field Near the Deep Ocean Bottom Due to a Near-Surface CW Source	PhD	[ARL] C S Penrod N R Bedford T E DeMary J A Shooter T L Foreman
Horton	W Jr	Mai	Liang-Peng	1976	Microinstability Theory of the Two-Energy Component Fusion Plasma System	PhD	Roquemore
Horton	Wendell	Cozzani	Franco	1985	Local Effect of Equilibrium Current on Tearing Mode Stability	PhD	S Mahajan R Hazeltine M Rosenbluth H Berk C Radin

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Horton	Wendell	Robertson	James A	1986	Stochastic Electron Dynamics due to Drift Waves in a Sheared Magnetic Field and Other Drift Motion Problems	PhD	C S Liu D K Choi T Jensen H Ikesi W Schieve C S Liu G S Lee; J Greene
Horton	Wendell Jr	Kwak	Ho-Young	1977	Electrostatic Plasma Modes in Cylindrical Geometry, and Normal Mode Equations for Drift Wave	M A	D-I Choi M E Oakes D W Ross Y C Kim
Horton	Wendell Jr	Koch	Robert A	1976	Theoretical Studies of Ion Acoustic Turbulence and its Macroscopic Effects on Plasma Behavior	PhD	D-I Choi

	Advisor		Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Horton	Wendell Jr	Brecht	Stephen H	1977j	Parametric Dependence of Ion Cyclotron Instabilities Driven by Neutral Beam Injection	PhD	D Hithcock M E Oakes D G Lominadze
Horton	Wendell Jr	Craddock	Gerald G	1987	Theoretical Microtearing Turbulence and Related Computational Studies of Constrained Turbulent Relaxation	PhD	W Horton Jr, H Berk M Rosenbluth A Aydemir D Thayer R Hazeltine S Mahajan D Ross
Ivash	E V	Kulkarni	Ramachandra J	1976	D State and Finite Range Effects in DWBA Theory for [d,p] Stripping Reactions	PhD	C W Horton, Sr E Hudspeth W R Coker S A A Zaidi E C G Sudarshan S Sen D Wright S H Suk

	Advisor		Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Keto	John	Kuo	Chen-Yu	1981	Kinetics of Electron Beam and Laser Excited Rare Gasses	PhD	none
Keto	John	Bowring	Norbert R	1985	A Study of Collisional Deactivation of Two-Photon Laser Excited Xenon Atoms	PhD	H H Langhoff R Sauerbrey T D Raymond M Bruce M Fink
Keto	John	Bruce	Michael R	1990	A Study of Reactive Quenching of Xeon by Chlorides Using Two Photon Laser Excitation	PhD	W Layne A Whitehead J Borysow L Frommhold E Meyer N Böwering M Fink
Keto	John	Howard	Maxine M	1984	Construction of a Supersonic Beam Apparatus	M A	M Fink N Böwering
Keto	John	Raymond	Thomas D	1983	Two Photon Spectroscopy of the 6p Manifold of Xenon	PhD	M Fink

	Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Keto	John W	Veney	David W		1989	Design and Development of a Long Pulse XeCl Excimer Laser	M A	B Hyde D Loewe
Keto	John W	Borysow	Jacek		1986	Coherent Raman Spectroscopy	PhD	L Frommhold M Fink J England
Keto	John	Hart	Charles F		1977	A Spectral Study of the Emission of O[ <sup>1</sup> S <sub>0</sub> ] in Mixtures of O <sub>2</sub> , in Argon Excited by an Electron Beam	M A	S Walsh K Allbright
Kimble	H Jeff	Wolinsky	Murray A		1987	Squeezing in the Degenerate Parametric Oscillator Via the Positive P Representation	M A	T Griffy G Wilson
Kimble	H Jeff	Boyd	Timothy L		1987	Dye Laser Frequency Stabilization Using an External Cavity Transducer	M A	J Hall [JILA]

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Kimble	H Jeff	Wu	Ling-An	1987	Squeezed States of Light from an Optical Parametric Oscillator	PhD	M Fink
Kimble	H Jeff	Xiao	Min	1988	Quantum Fluctuations in Nonlinear Optics	PhD	H J Carmichael P D Drummond J L Hall
Kimble	H Jeff	Raizen	Mark G	1989	Squeezing and Spectroscopy of Atoms in a Cavity	PhD	L Frommhold M Fink L Orozco
Kimble	H Jeff	Brecha	Robert J	1990	Nonclassical Photon Correlations from Two-Level Atoms in an Optical Cavity	PhD	M Fink H Carmichael;
Kimble	H Jeff	Orozco	Luis A	1987	Optical Bistability with Two-Level Atoms	PhD	W E Millett M Fink J A Wheeler H L Swinney; L-A Wu I T Rosenberger T L Boyd; A Font



Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Kimble	Jeff	Grant	David E	1983	Absorptive Optical Bistability with Two-Level Atoms	M A	L Deavers
Kimble	H Jeff	Wu	Ling-An	1983	The Role of Phase in Second Harmonic Generation within an Optical Cavity	M A	none
Kleinman	L	Makowitz	Henry	1988	A Theory of Quasi-Channeling Phenomena and Radiation in Systems of Macroscopic Extent	PhD	P Antoniewicz W D McCormick M N Rosenbluth L Kleinman W H Woodruff [LANL] C Pellegrini [BNL] D R Collins [Illinois] J Broadhurst [MN]
Kleinman	Leonard	Dempsey	Don G	1976	Energy Bands and Electronic Structure of Ferromagnetic Iron Thin Films	PhD	M Singh

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Kleinman	Leonard	Sohn	Ki-Soo	1976	Energy Bands and Electronic Structure of Copper Thin Films	PhD	D G Dempsey E B Caruthers
Kleinman	Leonard	Grise	Willaim R	1980	Surface and Interface Electronic Structure of Transition Metals	PhD	D G Dempsey K Mednick
Kleinman	Leonard	Euceda	Amando	1983	Self-Consistent Electronic Structure of Copper Thin Films	PhD	J C Thompson P Antoniewicz J Erskine A Glesson
Kleinman	Leonard	Zhu	Ming Jun	1990	Electronic and Magnetic Structure Calculations Using Norm-Conserving Pseudopotentials	PhD	D M Bylander P R Antoniewicz J D Gavenda J C Thompson R M Walser

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Leboeuf	Jean Noel	Han	Jung Hoon	1990	Particle Simulation of Finite [symbol for phase constant] Interchange Modes in a Sheared Magnetic Field	PhD	M Rosenbluth H Berk P Diamond W Horton J Van Dam E Vishniac G S Lee N Dominguez
Leboeuf	Jean-Noel	Sydora	Richard D	1985	Particle Simulation of Low Frequency Flucuations in a Sheared Magnetic Field	PhD	P H Diamond T Tajima M Rosenbluth N Dominguez T Chiueh G S Lee G Craddock Y M Li

	Advisor		Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Lesso	William G	Kopecki	Denis S	1979	The Physics of Growth of Vanadium Gallide and Niobium Stannide Superconducting Phases by the Bronze Technique	PhD	M Benningfield J Somerville B Bruton J Pedracine J Spurgeon M Schmerling H Webb N Williams
Little	Robert N	Khan	Muhammad B	1977	The Critical Radius of a Homogenous Nuclear Reactor with an Infinite Graphite Reflector from a Simple Leakage Calculation	M A	E L Draper A E Lee E Montague J P Huntsberger R N Little Paulter F E Crawley
Little	Robert N	Sánchez	Carmen E	1977	On Teaching a Guided Discovery Laboratory Course in Physical Science	M A	M Oakes

	Advisor		Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Little	Robert N	Rusnak	Amalia R S de	1983	Analysis of Some Factors Affecting the Success of the Guided Discovery Approach in Physics	M A	F E Crawley G L Sanchez
Little	Robert N	Valente	Maria Odete T A T	1976	A Study of the Ausubel Advance Organizer in an Inquiry Physical Science Course	PhD	A E Lee R Bartholomew E Montague C Hereford E Jennings
Little	Robert N	Cise	John P	1978	Locus of Control Shift, Cognitive Achievement, and Completion Rate for Self-Paced PSI vs. Instructor Paced Instruction in Introductory Physics at a Community College	PhD	O Mink B Hansen T Campbell

	Advisor	Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Little	Robert N	Jiménez Farías	Rosendo D	1978	An Analysis of the Structural Components, and their Relationship to Students' Achievements and Attitudes in a Physics Course at the Open Preparatory in Mexico	PhD	R B Bartholomew A E Lee F Crawley M E Oakes
Little	R N	Luengo Castro	Jorgé A	1986	Novel Spontaneous Raman Spectroscopy at Low Gas Densities	MA	A Ross L Orozco M Bruce C White T Koonce L Zhuhuai L Smith J Hartley

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Little	Robert N	Becker	Dean B, III	1980	The Effects of a Cosmology Oriented Astronomy on Attitudes of Community College Students Toward Support of Research in Pure Science: A Pilot Study	M A	none
Marshek	Kurt M	Chen	Hsien-Heng	1984	Numerical Solution for Contact Pressure and Wear Distributions of Unlubricated, Misaligned, Closely Conforming, Multiply Connected Surfaces	PhD	L F Kreisle C A Rotz H G Rylander K Sepehrnoori
Matsen	F A	Yurke	Bernard	1976	Particle Hole Symmetry within the Unitary Group Formulation of the Many-Body Problem	MA	D J Klein T L Welsher B L Bartlett M A Garcia-Bach

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Matsen	F A	Nelin	Constance J	1979	Unitary Group Formulation of Hartree Fock and Random Phase Theories	PhD	T Welscher
Matsen	F A	Alexander	Steven A	1982	Ab Initio Dissociations of Water	PhD	P Pulay
Matsen	F A	Tang	Dun-Sang	1982	On Quartic Interaction Hamiltonians and Symmetry Breaking	PhD	A M Gleeson A R Bohm W C Shieve J B Swift;
Matsen	Frederick Albert	Stoller	Lincoln	1985	Extending Quantum Spin Wave Theory to Critical Temperatures	PhD	none
Matzner	R A	Handler	Francis A	1977	On the Non-eclipse Optical Determination of the Gravitational Deflection of Light by the Sun	M A	H J Smith D S Evans B F Jones R A Abbott



Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Matzner	Richard	Pickrel	Stephen J	1977	Einstein-Maxwell Fields of the Kerr-Schild and Generalized Kerr-Schild Class	PhD	P Hogan B Nelson Y Nutku N Zamorano R Guy L Shepley V Sandberg P Chrzanowski
Matzner	Richard	Zamarano Hole	Nelson A	1979	Interior Reissner-Nordstrom Black Holes	PhD	P Candelas P Chrzanowski B DeWitt M Duncan F Handler B Nelson V Sandberg S Waller
Matzner	Richard	Rothman	Anthony R	1981	Microphysics and the Evolution of the Early Universe	PhD	N Sharp P Dykema

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Matzner	Richard	Evans	Charles R	1984	A Method for Numerical Relativity: Simulation of Axisymmetric Gravitational Collapse and Gravitational Radiation Generation	PhD	P Dykema L Smarr J Wilson J Centrella J Leblanc J York A Kulkarni R Isaacson
Matzner	Richard	Holcomb	Katherine A	1986	A Numerical Study of some Spherically-Symmetric and Axisymmetric Cosmological Models	PhD	J Centrella J Wilson H Kurki-Suonio A Mezzacappa K Thompson C Evans
Matzner	Richard	Waelbroeck	Henri	1990	2 + 1 Gravity: A New Approach	PhD	C Teitelboim B DeWitt S Weinberg J Polchinsky V Kaplunovdky W Fischler P Candelas L Shepley

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Matzner	Richard A	Kurtz	Russell C	1981	Effects on the Spectrum of the Cosmic Microwave Background Due to Intergalactic Dust	PhD	J A Hardt-Futterman
Matzner	Richard A	Futterman	John A H	1981	The Scattering of Massless Plane Waves by Rotating Black Holes	PhD	L C Shepley N A Sharp K Howard C Manogue
Matzner	Richard A	Tolman	Brian W	1982	The Polarizaion and Anisotropy on Large Angular Scales of the Microwave Background Radiation in Homogenous Cosmologies	PhD	none
Matzner	Richard A	Richter	Gary W	1983	Light Deflection and Time Delay in the Solar Gravitational Field	PhD	none

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Matzner	Richard A	Kurki-Suonio	Hannu A	1986	Inflation and Numerical Relativity	PhD	A Albrecht J Centrella K Holcomb K Kajantie P Laguna T Mezzcappa S Park B Tolman
Matzner	Richard A	Laguna-Castillo	Pablo	1987	Cosmological Applications of Singular Hypersurfaces in General Relativity	PhD	G Ellis A Albrecht H Kurki-Suonio A Mezzacappa G Ponce E Vishniac A Berkin N Lafave

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Matzner	Richard A	Mezzacappa	Anthony	1988	Computer Simulation of Time-Dependent Spherically Symmetric Spacetimes Containing Radiating Fluids	PhD	C Evans K Holcomb R Harkness J Centrella J York P Amsterdamski S Bludman H Kurki-Suonio
Matzner	Richard A	LaFave	Norman J	1989	Simplicial Lattices in Classical and Quantum Gravity: Mathematical Structure and Applications	PhD	A Kheifets P Laguna M Loewe D H King A Mezzacappa R Woodard J A Wheeler J York
Matzner	Richard A	Handler	Francis A	1979	Vacuum Black Hole-Gravitational Wave Cross Sections	PhD	J A Wheeler N Zamorano Y Buonamici

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Matzner	Richard A	Ciufolini	Ignazio	1984	Theory and Experiments in General Relativity and Other Metric Theories of Gravity	PhD	none
Matzner	Richard S	Wilson	Kenneth E	1985	Guage Invariant Perturbation Theory Prediction of the Sensitivity Required for Experimental Measurement of Quadrapole and Higher Moments of the Cosmic Microwave Background Radiation	PhD	M Demianski
Matzner	Richard A	Valanju	Alaka P	1979	Isotropy of the Universe and Nucleosynthesis	M A	none
McCormick	W D	Givens	Fenton L	1976	Molecular Motion in Solid Ethane: A Proton Magnetic Resonance Study	PhD	none

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
McCormick	William	Dykstra	Dewey I, Jr	1978	Phase Transitions in Potassium Hexachlorostannate [IV] by AC Calorimetry	PhD	B Swanson T Majors R Rodriguez D Jacobs
McCormick	William	Majors	Truett J	1980	The Specific Heat of Calcium Hexamine, 5K to 150K	PhD	K Darden J England J Campbell L Deavers J Thompson K Mednick U Even
McCormick	William	Jacobs	Diane A H	1984	The Specific Heat of Strontium Hexamine, 1.8K to 140K	PhD	J C Thompson T Majors J Campbell J McGuire L Deavers A Wolf

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
McCormick	William D	Lee	Kyung-Geun	1988	A Comparison of the Experimental Results a Chemical Model in a Belousov-Zhabotinskii Reaction	M A	N Kreisberg D Lindbergh W-Y Tam
McCormick	William D	Bujanos	Norman	1985	The Ballast Resistor: A Far From Equilibrium System	M A	none
McCormick	William D	Coffman	Cary G	1986	Complex Dynamics in the Belousov-Zhabotinskii Reaction	PhD	H Swinney L Deavers B Kilgore J Vastano A Brandstater E Kostelich G Weber V Ngo J Tran



Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
McCormick	Willam D	Kilgore	Mark H	1986	Survey of Dynamical Behavior in the Open-Flow Belousov-Zhabotinskii Reaction	PhD	K Coffman D Lindberg J Ringland D Barkley Z Noszticzius E Kostelich G King M Haye
Millett	Walter	Kluth	Edward O	1980	The Detection of Microwave Photons from the Ground State Splitting of Positronium with a Josephson Junction	PhD	none

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Moore	B Fred	Bolger	Joseph E	1977	Measurement of the Differential Cross Sections and Excitation Functions for the Nuclear Absorption Reactions of Negative Pions Incident upon Helium-3 and Helium-4	PhD	A Thiessen J Kallne C Norris J Amann G Burleson S Verbeck M Devereau I Lieb
Moore	C Fred	Snell	Michael P	1989	Large-Angle Elastic and Inelastic Scattering of $\pi^-$ and $\pi^+$ from $_{49}\text{Si}$ and $_{62}\text{Ca}$	M A	K Dhuga J Ritchie A Williams C Morris
Moore	C Fred	Kahrimanis	Georgios P	1990	Measurement of the Angular Cross Sections of the Charged 400 MeV Pions off the Nuclei of $_{34}\text{C}$ , $_{62}\text{Ca}$ , $_{12}\text{Zr}$ , and $_{42}\text{PB}$	M A	C Morris E R Gibson D Boudrie M Oothoudt L Attencio J Amann F Moore B Kielhorn

	Advisor		Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Moore	C Fred	McDonald	Joseph W	1990	Autoionization of Be-like Ions Following Double Electron Capture in C <sub>6-</sub> , O <sub>8-</sub> , and Ne <sub>9-</sub> Ions	M A	D Schneider [LBNL] G W Hoffmann M Prior [LBNL]; R Bauer [LBNL]
Moore	C Fred	Holtkamp	David Bruce	1979	Elastic and Inelastic Scattering of Pions from Oxygen-16	PhD	W J Braithwaite C Morris W Cottingame D Denhard S J Greene R J Joseph J Piffaretti H A Thiessen
Moore	C Fred	Greene	Steven J	1981	The Positive-Pion Double-Charge-Exchange Reaction: Experiments on the Isotopic Pair Oxygen-16,18 and Magnesium-24, 26	PhD	H A Thiessen C L Morris R L Boudrie J F Amann N Takanaka J Kosty L Atencio K Chellis

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Moore	C Fred	Oakley	David S	1987	Pion Elastic and Inelastic Scattering Near $N=28$	PhD	R Gilman P Seidl
Moore	C Fred	Yoo	Sung Hoon	1989	$[\pi^+]$ positive-or-negative sign, $[\pi^-]$ positive-or-negative sign']N] reactions on $^{34}\text{C}$ and $^{42}\text{Pb}$ near the giant resonance region	PhD	C Morris S Mordechai M Jones A Williams D Oakley S Sterbenz A Fazely R Gibson
Moore	C Fred	Oakley	David S	1985	A Search for Neutrino Oscillations	M A	none

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Moore	C Fred	Hodge	William L, Jr	1976	Multielectron Transitions following Heavy Ion Excitation: A Comparison of Self-Consistent Field Calculations with Experiment	PhD	P Richard D Scheider T Tamura W Braithwaite D Burch F Hopkins B Johnson J White
Moore	C Fred	Joseph	Richard J	1979	Analyzing Power and Differential Cross Section for Pion-Deuteron Production by 0.8 GeV Polarized Protons by Hydrogen	PhD	B Bonner F Cverna C Hwang N King E Winkleman M McNaughton H Willard R Ransome

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Moore	C Fred	Boyer	Kenneth G	1983	Pion Elastic and Inelastic Scattering from <sup>40, 42, 44, 48</sup> Ca and <sup>54</sup> Fe	PhD	G F Burleson [N M State U] C L Morris H A Thiessen [LANL] W Cottingame C Cottingame D Holtkamp I Holtkamp S Greene
Moore	C Fred	Kaziah	Rex R	1984	Pion Inelastic Scattering for the First Three Excited States of Lithium-6	PhD	W B Cottingame M Brown C Harvey D Oakley D Saunders P Seidl R Garnett S Greene

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Moore	C Fred	Seidl	Peter A	1984	The Measurement of Pion Double Charge Exchange on Carbon-13, Carbon-14, Magnesium-26, and Iron-56 [3 vols]	PhD	R Gilman R Kiziah M Brown C F Moore H Baer C Morris G Burleson B Cottingame
Morgan	L O	White	John R	1976	I Optical Transition Measurements from Heavy-Ion-Nitrogen Collisions; II Fission and Internal Conversion Studies	PhD	F F Hopkins D Schneider

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Morrison	Philip J	Kook	Hyungtae	1989	Chaotic Transport in Hamiltonian Dynamical Systems with Several Degrees of Freedom	PhD	P Morrison R Broucke R Hazeltine W Horton H Swinney R MacKay D Kim K-C Lee
Morrison	Philip J	Chen	Qi Keith	1989	Resonances, the Devils Staircase and Transport in Area-Preserving Maps	PhD	I Percival [Queen Mary College] W Horton H Swinney R Wyatt R MacKay F Argoul A Arnéodo D Barkley
[Mult Advrsrs] Griffy Holly	Thomas A Arthur C	Maxwell	John W	1987	A Theoretical Investigation of a Rectangular Corprine Waveguide Driven by a Planar Array	M A	none



Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
[Mult Advrsrs] Hazeltine Morrison	Richard D Philip J	Hsu	Chi-Tien	1986	Reduced Fluid Descriptions of Toroidally Confined Plasma with Finite Ion Temperature Effects	PhD	S M Mahajan M N Rosenbluth W Horton J Dollard J Van Dam P H Diamond T Tajima M LeBurn
[Mult Advrsrs] Howell Varghese	John R Philip L	Chen	Yih-Kang	1987	Self Shielding of Surfaces Irradiated by Plasma Pulses	PhD	none
[Mult Advrsrs] Van Dam Berk	James W Herbert L	Domínguez Vergara	Nicolás	1986	Stability of Ballooning Modes in Tokomaks with Energetic Particles	PhD	M N Rosenbluth J N Leboeuf S T Tsai P H Diamond

Advisor		Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
[Mult Advrsrs] Berk Mahajan	H L	Chen	1988	Trapped Particle Instability and the Flute Instability in Tandem Mirrors: Scale Separation Closure in Alfvén Wave Turbulence	PhD	M Rosenbluth R Hazeltine W Horton J Dollard P Diamond V Wong J Van Dam Y-Z Zhang
	S M					
[Mult Advrsrs] Frommhold Keto	Lothar W	Taylor	1989	The Development of the Raman-Induced Kerr Effect as a Sensitive Spectroscopic Probe	PhD	J Borysow A Borysow L Deavers D Lowe J Martinez H Williamson F Gallagher J Kerrigan
	John W					

Advisor		Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
[Mult Advrsrs] Kimble Fink	H Jeff Manfred	Lee	Willaim D	1990	Linewidth Reduction and Frequency Stabilization of Semiconductor Diode Lasers	M A L Hollberg J C Campbell Robert Brecha A J Seltzer S Periera A Byers T O'Brien P K Rutledge
[Mult Advrsrs] Vishniac Matzner	Ethan Richard	Lewis	Caroline M	1990	Peculiar Cosmological Velociities	PhD R Jacob E Shepherd W Fischler L Ford J-C Hwang
[Mult Advrsrs] Ross Mahajan	David W Swadesh	Li	Wann-Quan	1989	Kinetic Effects in Alfvén and Ion Cyclotron Wave Propagation: Surface Eigenmodes and Impurity Effects	PhD none

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
[Mult Advrsrs] Vishniac DeWitt	Ethan T	Harleston	Hugh	1990	Weakly-Interacting	PhD	R Matzner
	Cécile	López Espino			Particles in General		A Gleeson
					Relativity: A Numerical Study of the General- Relativistic Boltzmann Equation		B Dewitt K Holcomb S J Park A Mezzacappa
[Mult Advrsrs] Berk Mahajan	Herbert L	Zhang	Yang-Zhong	1988	Some Aspects of	PhD	V Wong
	Swadesh				Plasma Kinetic		J Van Dam
					Theory: Energetic Particle Physics: Renormalization Theory: Anomalous Electron Transport in Tokomaks		D Ross W Horton R Hazeltin E Powers M Rosenbluth T Tajima
[Mult Advrsrs] Hazeltine Mahajan	R D	Lee	Xiang-Seng	1980	Ion Dynamics and the	PhD	D W Ross
	S M				Unified Tearing Mode		C W Horton, Jr
							F L Hinton

Advisor		Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
[Mult Advrsrs] Griffy Hawker Horton	T K C Sr	Penland  Mary Cecile	1984	The Effect of Internal Waves on Acoustic Normal Modes	PhD	W Horsthemke Y Desaubies
[Mult Advrsrs] Hinton Horton	F L C W Jr	Teschan  Paul E	1983	Ionization, Recombination, and Neoclassical Impurity Transport	M A	J C Wiley W L Rowan R D Hazeltine A A Ware
[Mult Advrsrs] Ross Mahajan	David Swadesh	Li  Yan Ming	1984	Alfvén Waves in the Presence of Alpha Particles: Stability, Heating and Current Drive	PhD	R Bengston M Rosenbluth H Berk M Oakes

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
[Mult Advrsrs] Horton Massell	Claude W Wulf	Bell	David W	1979	Sheer Wave Propagation in Unconsolidated Fluid Saturated Porous Media	PhD	D Shirley C Ingrom D Decamp J Hovem
Ne'eman	Yuval	Lee	Chang-Yeong	1990	Renormalization of Gravity Model with Local GL[4,R] Symmetry: Connections Between Bosonic and Superstrings	PhD	C DeWitt G Hamrick J Polchinski S Weinberg R Bruno R S Schimmrigk J Trisnadi A Ukekawa
Nolle	A W	Wilson	Gary R	1981	Covariance Functions and Related Statistical Properties Acoustic Backscattering from a Randomly Rough Air-Water Interface	PhD	M Frazer C Horton Sr J Willman D Evertson B Anderson P Covey R Hernandez H Hehman

	Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Nolle	A Wilson	Lin		Tien-Sheng	1985	Dynamic Compressibility of High Polymers	PhD	P Antoniewicz C B Chiu J Swift P Munk [Chem] L Deavers J England
Nolle	Alfred W	Anzola-Quinto		Francisco A	1977	Electron Spin Resonance of Glassy As <sub>2</sub> S <sub>3</sub> Containing Chromium	M A	J C Thompson J E Arnó
Nolle	Wilson	Oakley		David W	1982	Acoustic Reflection from Anisotropic Sediments	M A	P Vidmar M Daniels C Penland R Pitre R Koch
not legible		Nahm		In Hyun	1978	Symmetry, Supersymmetry, and the Contraction of the Orthosymplectic Group	M A	none

Advisor		Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
not legible	Whiting	Deborah J	1979	Density Expansion of the Self-Diffusion Coefficient for a Non-Degenerate Quantum Fluid	M A	none
not legible	Kwong	Kwok C	1980	Low Energy Electron Scattering from Adsorbate	M A	none
not legible	Burns	William S	1980	Optical Bistability in a Sodium Beam	M A	none
not legible	Cremans	Donna J	1983	A Measurement of the Spin Depolarization Parameters for Proton-Proton Elastic Scattering at 699 MeV	M A	none
not legible	Brown	Michael S	1985	Dimer Contributions to the Collision-Induced Light Scattering Spectra of Molecular Hydrogen	M A	none
not legible	Pollot	Michael	1987	Manifest Covariance in Phase Space	M A	none



Advisor		Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
not legible	Rodrigo	Enrico A	1986	Canonical Quantum Gravity and Compactification	PhD	none
not legible	Dykema	Pieter G	1980	The Numerical Simulation of Axially Symmetric Gravitational Collapse	PhD	R Matzner J Centrella L Cook M Norman L Smarr R Bowers A Gleeson J R Wilson
not legible	Culbreth	John M	1978	Aristotles Account of Change and the Philosophical Problems Concerning Change	PhD	none
not legible	Devlin	James P	1979	Aristotles Conception of Time: A Study of Physics IV, 10-14	PhD	A Mourelatos I C Lieb C Hartshorne

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Novak	Gordon S, Jr	Kook	Hyung Joon	1989	A Model-Based Representational Framework for Expert Physics Problem Solving	PhD	B Kuipers B Porter C Chiu J Werth V Kumar B Bulko X-S Lee J H-T See;
Novak	Gordon S, Jr	Bulko	William C	1989	Understanding Coreference in a System for Solving Physics Word Problems	PhD	H J Kook X-S Lee H-T See M Purvis S Lovci N & S LaFave M Loewe R Preston
Oakes	M E	Clark	Miles C	1976	Radio Frequency Absorbtion in a Turbulently Heated Plasma Near the Lower Hybrid Frequency	PhD	R Michie D H McDaniel B Moore S J Marsh

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Oakes	M E	Copeland	James E	1976	Propogation of Waves Near the Lower Hybrid Resonance in a Barium Q-machine	PhD	L Coble B Moore G R Wittig L Deavers J England E Rohde P Coose C Yates
Oakes	M E	Booth	William D	1988	Experimental Investigation of Driven Alfvén Wave Resonances on the PRETEXT Tokomak	PhD	R D Bengston S M Mahajan E J Powers D W Ross P M Valanju A MacMahon D Patterson K Carter
Oakes	M E L	Eways	Saad E	1988	Free and Driven Alfvén Waves in a Cold Cylindrical Plasma	PhD	P R Antoniewicz R D Bengston D W Ross T Tajima

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Oakes	Melvin E	Woodward	Niel W	1988	A Technique for the Measurement of Rotation Velocity on the TEXT Tokamak	M A	H Childs J W Bryan A Meigs R Collins R Durst M Moe A Chen J C Thompson
Oakes	Melvin E	Watkins	Jonathan G	1982	RF Current Generation Near the Ion Cyclotron Frequency	PhD	B Michie S-H Lin S Eways E J Powers R Bengston K Gentle P Phillips
Oakes	Melvin E	Michie	Robert B	1983	Alfvén Wave Experiments in the PRETEXT Tokamak	PhD	T Evans S-H Lin P Valanju J Watkins E J Powers M Fink

	Advisor		Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Oakes	Mel E	Ordonez	Carlos A	1990	Numerical Investigation of Plasma-Surface Interactions in a Fusion Ignition Experiment	PhD	R Carrera W D Booth E Montalvo H Howe P Varghese D Ross J Howell R Bengston
Oakes	Melvin E	Schultz	John W	1990	An Experimental Investigation of the Power Deposition During Eletron Cyclotron Resonance Heating in the Texas Experimental Tokomak	M A	T Herman V Filippas D Sing
Oakes	Melvin E	Hamilton	Jeffrey L	1977	Electronic Modeling of the Mode Coverion Process	M A	R Michie D Kamenitsa W D McCormick E Powers

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Phillips	Perry	Stinnett	Regan W	1977	An Experimental Study of the Texas Turbulent Torus	PhD	R Bengston K Gentle
Phillips	Perry	Pittman	Timothy L	1978	A Study of the Foot Structure of Perpendicular MHD Collisionless Shock Waves	PhD	P Nielsen R Bengston K Gentle A MacMahon
Phillips	Perry	McCool	Steven C	1982	Thomson Scattering on the PRETEXT Tokamak	PhD	R Bengston K Gentle E Powers F Hinton W Rowan R Gandy J Joyce D Pease

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Phillips	Perry	Porter	John L	1985	Thomson Scattering on the Texas Experimental Tokomak	PhD	R Bravenec K Gentle S Kim S McCool B Richards C Ritz D Ross J Snipes
Polchinski	Joseph	Dai	Jin	1989	Topics and Particle Physics and String Theory	PhD	W Fischler S Weinberg D Dicus Z Yang R Xu Y Cai J Liu J Hughes
Polchinski	Joseph C	Kim	Doseok	1990	Q Shells	M A	L C Shepley

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Polchinski	Joseph C	Cai	Yun-Hai	1988	Superstring Amplitudes and Effective Action	PhD	C A Núñez A He W Fischler P Candelas S Weinberg
Polchinski	Joseph C	Hughes	James L	1988	Three Applications of the Renormalization Group	PhD	W Fischler S Weinberg S deAlwis L Mezincescu B McClain B Warr J Liu J Pearson
Powers	Edward	Joyce	Gerald R	1984	The Modulation of the Intensity of Suprathermal Electron Cyclotron Second Harmonic Radiation by Magnetic Islands in a Tokamak	PhD	R Bengston J Benesch S Eckstrand S McCool R Gandy S H Lin S B Kim T Kochanski



Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Powers	Edward J	Hong	Jae Y	1982	Nonlinear System Transfer Functions with Applications to Nonlinear Electronic Scatterers	PhD	G L Wise M M Backus A A Dougal W C Duesterhoeft Y C Kim J M Beall J P Goose
Powers	E J	Gautam	Sulaksh R	1980	Three Wave Non-Linear Interactions in Dispersive Media	PhD	M F Becker C C Chiang X Tata Y C Kim R Koch
Prigogine	I	Rigney	David R	1978	Stochastic Problems in Biophysical Cytology	PhD	W C Schieve G Nicolis J Richelle J Hiernaux J S Turner A Nazarea A Bulsara R Gragg

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Prigogine	Ilya	Kondepudi	Dilip K	1980	On the Influence of External Fields on Non-Equilibrium Chemical Systems	PhD	G Nicolis T Erneaux [Solvay Inst] B Wooters W Zurek
Prigogine	Ilya	Lockhart	Clayton M	1981	Time Operators in Classical and Quantum Systems	PhD	none
Prigogine	Ilya	Chen	Ping	1987	Nonlinear Dynamics and Business Cycles	PhD	W A Barnett W W Rostow R Herman W Horsthemke J S Turner W M Zheng Y Yamaguchi W Schieve
Prigogine	Ilya	Nelson	George W	1990	Sensitivity of Time-Dependent Bifurcation Processes and the Origin of Biomolecular Chirality	PhD	D Kondepudi

Advisor			Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Radin	Charles	Borden	Brett H		1980	The Structure of Rare Gas Crystals	M A	A Wolf
Ray	Robert L [Lanny]	Lumpe	Jerry D		1986	Correlation Effects in the Relativistic Impulse Approximation Treatment of Proton-Nucleus Elastic Scattering	PhD	G W Hoffmann
Reichl	Linda	Wooters	William K		1980	The Acquisition of Information from Quantum Measurements	PhD	J A Wheeler D Kondepudi W Zurek R McAdory B Nelson
Reichl	Linda	De Fainchtein	Rosalinda K		1984	Field Induced Resonances in the Toda Lattice	PhD	T Petrosky W M Zheng J Thompson
Reichl	Linda	Mayer	Thomas J		1987	A Quantum Many-Body Model for the Electrical Properties of Chain Molecules	PhD	none

	Advisor		Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Reichl	Linda E	Tran	Phuoc Xuan	1986	Electron Self-Localization in a One-Dimensional Lattice of Finite Length	M A	none
Reichl	Linda E	Lin	Wen-Chein A	1986	External Field Induced Chaos in Classical and Quantum Hamiltonian Systems	PhD	none
Reichl	Linda E	Sparling	Lynn C	1987	Studies in Interfacial Dynamics	PhD	R Schechter D Kondepudi J Sedlak
Riechl	Linda E	Schnieder	Ronald R	1987	Calculating the Form of the Angular Velocity Autocorrelation for a Rotating Spherical Brownian Particle inside a Spherical Fluid Volume	M A	M Oakes

	Advisor		Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Riley	Peter	Rodebaugh	Raymond F	1984	Measurement of the Spin Transfer Parameters $D_{LL}$ , $D_{SL}$ , $K_{LL}$ , and $K_{SL}$ for pp Elastic Scattering at 800 MeV	M A	D Cremens S Turpin
Riley	Peter	Newsom	Charles R	1980	The Free Neutron- Proton Analyzing Power at Medium Energies	PhD	J Simmons B Bonner M McNaughton C Hollas J Jarmer L Northcliffe T Bhattia J Hiebert

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Riley	Peter J	Zu	Shen-Wu	1988	Wolfenstein polarization observables for the reactions $P \rightarrow P \pi^+ P \rightarrow P \pi^-$ [Greek character pi]-N and $P \rightarrow P \pi^+ P \rightarrow P \pi^-$ [Greek character pi]-N and $P \rightarrow P \pi^+ P \rightarrow P \pi^-$ [Greek character pi]-N at 800MeV and 650MeV beam energies	PhD	B E Bonner M McMaughton C L Hollas L Rosen

	Advisor		Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Riley	Peter J	Ransome	Ronald D	1981	Measurement of the Free Neutron-Proton Analyzing Power and Spin Transfer Parameters in the Charge Exchange Region at 790 MeV	PhD	J Novak N Hoffman F Humphry R Davis A Thiessen J Amann J Boissevain O van Dyck
Ritchie	Jack	Dearborn	Michael E	1989	Rate Effects of Photomultiplier Tubes	M A	none
Robertson	W W	Jamieson	Georges E	1979	Measurements of the Total Elastic Scattering Cross-Section for Argon on Argon at Collision Energies Below Four Millivolts	PhD	L Frommhold M Fink G Wittig L Deavers F Collins

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Rosenbluth	Marshall N	Xu	Xue-Qiao	1990	The Effect of Trapped Ions and Current Drive on Tokamak Microinstabilities	PhD	P H Diamond H L Berk D E Baldwin R D Hazeltine J W Van Dam E T Vishniac K H Burrell M C Zarnstroff
Rowan	William	Leung [aka Liang in PCL catalogue listing]	Wai Kwong [aka Weiguang in PCL catalogue listing]	1984	Investigation of Impurity Transport in Texas Experimental Tokamak	PhD	K Gentle P Phillips J Wiley A A Ware A Gleeson R Bengston R Bravenec K Empson
Rowan	William	Durst	Roger D	1988	An Experimental Investigation of the Dynamics of Pellet Ablation on the Texas Experimental Tokamak	PhD	D Shuresko M Gouge [ORNL] T E Evans [General Atomic]



Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Scalo	John	Gilden	David L	1982	Dynamical Evolution of Substructure in Molecular Clouds [2v]	PhD	J Boris D Book J Tohline S Green C Struck-Marcell F Bash C Wheeler N Evans II
Scherr	Charles W	Hendrickson	Wayne C	1984	Microscopic Study of Fluid Flow	PhD	J J Berlin R Matzner W McCormich W Schieve
Schieve	William C	Snapp	Robert R	1987	A Stability Analysis of a Nonlinear Optical Ring Cavity	PhD	H J Kimble L A Lugiato L M Narducci H J Carmichael J C Englund L A Orozco

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Schieve	William C	Bailey	Thomas K	1979	The Unstable State and Its Representation in Quantum Decay Theory	PhD	I Prigogine L P Horowitz A P Grecos V Gorini F Mayne M Theodosopulu F Henin
Schieve	William C	McAdory	Robert T	1984	Deterministic Studies of an Irradiated Free Running Josephson Tunnel Junction Model	PhD	I Prigogine F Ledlow V Smith T Sigrest C Carlson R Dickman J Hughes
Schieve	William C	Carlson	Lee D	1989	A Qualitative Study of Noise and Quantum Fluctuations in Classical Chaotic Systems	PhD	none

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Schieve	William C	Gray	Mark G	1990	Computer Simulation of Depolarized Light Scattered From Clusters	PhD	L Frommhold R Dickman E Lewis D Munton R Roberts R Svensson
Schieve	William C	Canestaro	Christopher L	1983	Clustering in Isothermal Molecular Dynamics: A Comparison to Chemical Kinetics Model	M A	I Prigogine D Lippmann J S Turner R Dickman M Gray C Frink P Pape M Vogel

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Schieve	William C	Zurek	Wojciech H	1979	Homogeneous Nucleation and Clustering in Vapor-Liquid Phase Transistion as an Example of Stochastic Bistability	PhD	I Prigogine J A Wheeler H Harrison D Kondepudi B Wooters R McAdory N G Van Kampen L Reichl
Schieve	William C	Gragg	Robert F	1981	Stochastic Switching in Absorptive Optical Bistability	PhD	A R Bulsara J C Englund W H Zurek H J Carmichael
Schieve	William C	Dickman	Ronald	1984	Equilibrium Clustering in Lattice Gasses	PhD	T de Selva C Canestaro M Gray D Lippman C Radin W Wooters W Zurek R Smoluchowski

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Schieve	William C	Bulsara	Adi R	1978	Entropy, Stability, and Flucuations in Lasing Systems	PhD	I Prigogine L Brenig [U Libre de Bruxelles] D Walls [U Waikato, N Z] N van Kampen [U Utrecht] L Reichl J Keto
Schieve	William C	Middleton	John W	1977	On Some Approximations Arising from the Generalized Master Equationdescription of Discrete Open Systems Models	PhD	I Prigogine A Bohm L Reichl T Tamura S Webber
Schieve	William C	Englund	John C	1985	Theory of Tricritical Lasers [2 vols]	PhD	none

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Sciama	Dennis W	Melott	Adrian L	1981	Massive Neutrinos as Galactic Halo Material: Radiative Decay Constraints and Gravitational Clustering	PhD	N Sharp S Weinberg S R Deans P Shapiro B Langdon
Seestrom-Morris	Susan J	Saunders	David P	1984	Experimental Results from 164 MeV Pion Scattering from Nitrogen 15	M A	none
Shepley	Larry	Nelson	Bruce L	1978	Relativity, Topology, and Path Intergration	PhD	A Schild C DeWitt P Olum K Bichteler D Dicus
Shepley	Larry	Konkowski	Deborah A	1983	The Nature and Stability of Spacetimes with Quasiregular Singularities	PhD	T Helliwell B Hiscock K Howard

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Shepley	Larry	Kulkarni	Anil D	1984	Initial Data for N Black Holes	PhD	J Bowen M Cantor J W York Jr
Shepley	Larry C	Rotenberry	James M	1981	Numerical Study of Cylindrical Gravitational Radiation	M A	J R Wilson; F B Estabrook J D Anderson
Shepley	Larry C	Plassman	Paul E	1981	The Initial Value Problem for Gauge Theories	M A	none
Shepley	Lawence C	Waller Mejia	Sergio	1983	Electromagnetic Universes	PhD	P Candelas A Gleeson R Matzner M P Ryan M Rosenbaum

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Shepley	Lawrence C	Sammelmann	Gary S	1984	The Geometry of Gauge Fields	PhD	D Elworthy A Diaz P Gliechauf C Hart G Kennedy C Pope A Rothman N Sharp
Shepley	Lawrence C	Pardo Orive	Francisco	1987	Equivalent Lagrangians and the Inverse Problem in Classical Mechanics	PhD	S Hojman M Rosenbaum; A Font J A Nieto H Harleston G Ponce
Shepley	Lawrence C	Berkin	Andrew L	1989	Anisotropic Inflation	PhD	B Warr R Matzner P Laguna P Amsterdamski M L Bartlett P Gilkey



Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Shepley	Lawrence C	Macartney-Filgate	Nancy C	1980	Transformations Related to Second Order Killing Tensors in the Context of Einsteins Gravitational Theory	M A	none
Shepley	Lawrence C	Nieto Garcia	Juan A	1986	Classical Test Particles and [4+N]-Dimensional Theories of Space-Time	PhD	C Teitleboim
Shepley	Lawrence C	Darke	Richard M	1982	Electromagnetic Test Fields in Bianchi Type I Cosmologies	M A	none
Shipsey	E J	Hansen	Craig W	1984	Wavefunctions and Spin-Orbit Calculations for the Lowest $^2\Delta$ , $^2\Sigma^+$ , and $^4\Pi$ States of CH	M A	J C Browne

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Simmons	Robert F	Novak	Gordon S	1976	Computer Understanding of Physics Problems Stated in Natural Language	PhD	J Loehlin W Bledsoe N Marting M Smith M Tyson R Amsler J Roach J Dreussi
Sudarshan	E C G	Tang	Dun-Sang	1979	Classifications of the Unitary Irreducible Representations of the Groups $SO[7]$ and $SO[6,1]$	M A	F A Matsen
Sudarshan	E C G	Khalil	M Aslam Khan	1976	Relativistic Wave Equations	PhD	W J Hurley E Ugaz S R Gautam M Seetharaman A M Gleeson

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Sudarshan	E C G	Mac	Enrique	1977	A Renormalizable Massive Charged Vector-Boson Theory without Spontaneous Symmetry Breakdown.	PhD	J P Hsu
Sudarshan	E C G	Underwood	John A	1977	Unitarity, Renormalization, and Applications of a Non-Abelian Gauge Theory	PhD	J P Hsu
Sudarshan	E C G	Kagali	Basavaraj A	1980	A Study of Radiative Transfer	PhD	A Bohm L W Fromhold T Udagawa J A Wheeler A M Gleeson C C Chang S R Gautam S Mahajan
Sudarshan	E C G	Al-Hendi	Hamad A	1982	Gauge Hierarchy Problem in Grand Unified Theories	PhD	C C Hsiang S Nandi P Morely

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Sudarshan	E C G	Schimert	Thomas	1985	Lepton Distributions from the Decay of Wino and Scalar-Lepton Pairs at Electron-Positron Colliders; and, Heavy-Mass Power-Counting Theorem and Decoupling	PhD	C C Chiang R Woodard J Govaerts C Burgess
Sudarshan	George	Yajnik	Urjit	1986	Guage Theory Vortices and Their Role in Cosmology	PhD	C Chiu S Weinberg M Clements S Blau G Rajasekharan A Kulkarni
Sudarshan	E C G	Valanju	Prashant M	1980	Zeno Effect in Nuclear Matter	PhD	A M Gleeson C B Chiu E Tagasugi C C Chang S Mahajan

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Sullivan	Francis	Barkley	Dwight E	1984	Numerical Studies of a Josephson Junction Circuit Used for Noise Thermometry	M A	H A Fowler R Soulen Jr
Swift	Jack	Leitner	Pilla A	1978	A Theoretical Study of the Nematic-Smectic C Liquid Crystal Phase Transition	PhD	L Koschmieder B McCormick B Schieve C Horton
Swift	Jack	Hossain	Khurshid A	1979	Dynamics Near the Phase Transitions in Liquid Crystals	PhD	P R Antoniewicz J L Erskine W D McCormick W C Shieve
Swift	Jack	Mulvaney	Brian J	1980	Liquid Crystal Phase Transitions	PhD	W D McCormick W C Schieve P R Aontoniewicz J L Erskine P Lietner K Hossain C Wade P Martinoty

	Advisor		Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Swift	Jack	Jacobsen	Edward A	1982	Topics in Liquid Crystal Theory	PhD	W D McCormick W C Schieve L E Reichl A M Gleeson; B Mulvaney
Swift	Jack B	Wolf	Alan N	1980	Chaotic Power Spectra for Quadratic Mappings	M A	W McCormick H Swinney J Turner E Jacobsen B Andereck B Borden
Swift	Jack B	Arbeitman	Kenneth J	1989	Numerical Modeling of Pattern Competition Near the Rayleigh- Bénard Convective Threshold	M A	none

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Swift	Jack B	Wolf	Alan N	1983	Chaos in Few Dimensions	PhD	H Swinney D Farmer W McCormick J Turner J-C Roux W Schieve W Horsthemke
Swift	Jack B	Cajas	Carlos A	1984	Uniaxial to Biaxial Phase Transition in Nematic Liquid Crystals	PhD	J C Thompson W D McCormick P Candelas H L Swinney
Swift	Jack B	Sun	Yu-feng	1985	Phase Transitions and Critical Phenomena in Columnar Liquid Crystals	PhD	P Antoniewicz R A Freisner J C Thompson T Udagawa S X Zhou R B Tao

Advisor			Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Swift	Jack B	Cosenza	Mario G		1990	Multifractal Analysis of One Dimensional Systems	PhD	W D McCormick H L Swinney W Jefferys J Turner H Bai-Lin E Kostelich D P Lathrop
Swinney	Harry L	Skinner	Gordon S		1989	Studies of Spiral Wave Dynamics in Belousvov-Zhabotinskii Reagent	M A	none
Swinney	Harry L	Hirst	Donald A		1987	The Aspect Ration Dependence of the Attractor Dimension in Taylor-Couette Flow	PhD	R Tagg E Kostelich A Fraser L Deavers
Swinney	Harry L	McCarty	Peter E		1989	Modeling of Spatially Extended Open Chemical Systems	PhD	W Horsthemke E Kostelich N Kreisberg J Pearson J Vastano



Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Swinney	Harry L	Meyers	Steven D	1990	Laboratory Studies of Coherent Structures in Quasi-Geostrophic Flows	PhD	J Sommeria B Behringer P Marcus D del Castillo-Negrete P Morrison
Swinney	Harry L	Reith	Leslie A	1981	Transitions to Turbulence in a Circular Couette Flow System	PhD	M Gorman R Fenstermacher G King D Andereck R Quinlan T Groover M Biggerstaff S Milam
Swinney	Harry L	King	Gregory P	1983	Limits of Stability and Irregular Flow Patterns in Wavy Vortex Flow	PhD	L Koschmieder M Gorman D Andereck L R Rieth L S Sheng L-H Zhang R Shaw C Roux

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Swinney	Harry Leonard	Vastano	John A	1988	Bifurcations in Spatiotemporal Systems	PhD	J Pearson W Horsthemke H L Swinney H L Swinney
Swinney	Harry Louis	Fraser	Andrew M	1988	Information and Entropy in Strange Attractors	PhD	none
Tajima	Toshi	Lee	Keeyong	1988	MHD Simulation of Magnetic Reconnection in the Earth's Polar Cusp	M A	C S Lin R F Steinolfson J L Erskine P Riley K Wong J Koga
Tajima	Toshiki	Koga	James	1985	Numerical Simulation of a Plasma Entering Curved and Transverse Magnetic Fields	M A	J Geary N Rostoker

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Tajima	Toshiki	Fujinami	Toru	1986	Numerical Simulation of Plasma Entering Transverse Magnetic Fields	M A	J Geary J Koga
Tajima	Toshiki	Geary	James L	1986	Computer Simulation of Driven Alfvén Waves	PhD	J-N Leboeuf R Bengston W Drummond J Erskine D Ross S Mahajan T Evans Y-M Li
Tajima	Toshiki	Zaidman	Ernest G	1986	Kinetic Simulation of Nonlinear Kink Stabilities	PhD	W Horton D Barnes S Majahan C Wilson J Geary M Sternberg J Dibble

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Tajima	Toshiki	Kurki-Suonio	Taina K	1989	Non-Linear Self-Focusing of Optical Beams in Plasmas	PhD	W Horton Jr P Morrison M Lebrun D Booth N Woodward H Ouroua S Eways B Palka [Math]
Tajima	Toshiki	Lebrun	Maurice J, III	1988	Drift Wave Simulation in Toriodal Geometry	PhD	J N Lebouef D Barnes A Aydemir D Ross J Van Dam R Sydora E Zaidman J Geary J Sedlak

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Tamura	Taro	Weeks	Kenneth J	1978	Application of Boson Expansion for the Description of Collective Motion in Even-Even Nuclei	PhD	W R Coker K K Kan J Lynch D Price T Takamura K Wood T Udagawa T Kishimoto [T A&M]
Tamura	Taro	Pedrocchi	Valento G	1982	Investigations of Some Formal Aspects of the Boson Expansion Technique in Nuclear Theory	PhD	T Udagawa W R Coker H Amakawa H Lenske Y Kondo D R Price Y Tzeng K S Low

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Tamura	Taro	Benhamou	Mohamed	1984	DWBA Calculations of Continuum Spectra of Nuclear Reactions Induced by Light Ions	PhD	W R Coker P Riley G Hoffman L E Reichl Y Tzeng K S Low V Pedrocchi M Bartlett
Tamura	Taro	Jamaluddin	Muzhar bin	1986	Application of a Boson Expansion Formalism Based on the Ransom-Phase Approximation to Samarium Isotopes	PhD	T Udagawa
Tamura	Taro	Kim	Hyoung-Bae	1987	The Boson Expansion Theory as the Nuclear Structure Theory for the Heavy Nuclei	PhD	T Udagawa V Pedrocchi S-W Hong S Stotts Y-J Lee R Mastroleo D Knobles J Penica-Cruz

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Tamura	Taro	Tran	Phuoc Xuan	1987	Dynamics and Statics of Electron Self-Trapping in Discrete Lattices	PhD	none
Tamura	Taro	Stotts	Steven A	1988	Boson Expansion Theory Predictions of Anharmonic Gamma Vibrations in Well Deformed Nuclei	PhD	T Udagawa V Pedrocchi M Jamaluddin H-B Kim S-W Hong Y-J Lee R Maestroleo D Knobles
Teitelboim	Claudio	Diaz	Alvaro H	1985	The Hamiltonian Formulation of Supergravity in Eleven Dimensions	PhD	J & D Feo A & S Sivaramakrishnan P & S Houlahan R Znajeck G Miller
Teitleboim	Claudio	Brown	John D	1985	Lower Dimensional Gravity	PhD	M Henneaux

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Thiessen	Arch	Milner	Edward C	1986	Observation of $\lambda$ -Hypernuclei in the Reaction ${}_{34}\text{C}[\pi^-, \text{K}^-] \lambda_{34}\text{C}$	PhD	A Thiessen
Thompson	James	Davis	Randall B	1978	An Optical System for the Measurement of Binary Alloys	M A	D Trotter Jr C Krohn U Even
Thompson	James C	González Hernández	Eduardo	1987	Roughness Effects on the Coupling of Polarized Radiation to Surface Plasmons as Reflected in Photoemission	M A	U Even D Hampton D Plotkin H-T Chou J Villagran C-W Kim G Webber
Thompson	James C	Weber	Gayle K	1987	Time Signature of Photo Current in Liquid Ammonia	M A	H-T Chou D Hampton T Koschmieder



Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Thompson	James C	Plotkin	Douglas I	1988	Attenuated Total Reflection Spectroscopy of Surface Plasmons at the Copper-Potassium Chloride Interface	M A	none
Thompson	James C	Koschmeider	Thomas H	1988	Dispersion Relation Check by Plasmon Shifts Using Three Wavelengths of Light	M A	L Frommhold J Villagran H-T Chou C-W Kim A Overman G Weber J Kerrigan D White
Thompson	James C	Knebel	Dorothy V K	1990	An ATR Study of Silver Film Growth on Warm Glass Substrates	M A	T Koschmieder H-T Chou J C Villagrán

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Thompson	James C	Villagran de Leon	Juan C	1987	Attenuated Total Reflection Spectroscopy of Surface Plasmons	PhD	P Antoniewicz U Even
Thompson	James C	Kim	Chi-Woo	1989	Photoemission Study of Thin Films with Polar Molecular Adsorbates	PhD	U Even P Antoniewicz A Campion T Koschmieder C Villagran H T Chou D Hampton S R Shin
Thompson	James C	Chou	Huseh-Tao	1990	Enhanced Photoemission by Excitations of Surface Plasmons	PhD	P R Antoniewicz U Even K Knebel D Hampton G Weber C W Kim S R Shin A Overman

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Thompson	James C	Johnston	David L	1977	An Electrodeless Technique for Resistivity Measurement of Liquid Sodium-Cesium Alloys	M A	U Even
Thompson	James C	Villagran	Juan C	1985	Optical Properties of the Alkalai Metals	M A	R Fainchtein
Thompson	James C	Swenumson	Richard D	1977	Electrodeless and Four-Probe Double AC Hall Effect Measurements on Alkali Metal-Ammonia Solutions	PhD	J Swift C Yates J Campbell
Thompson	James C	Trotter	Don M Jr	1977	The Reflectance of Liquid Gallium-, Indium, and Thallium-Tellurium Alloys	PhD	S Granstaff C Krohn D Dempsey S Hurt J Campbell C Yates

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Thompson	James C	Krohn	Christine E P	1978	Photo-Assisted Electron Injection at a Semi-Conductor Ammonia-Interface	PhD	U Even A Bard P Kohl R Nonfi C Yates L Devors [sic]
Thompson	James C	Blanks	Daniel K	1982	The Mobility of Electrons in Ammonia, Methylamine, and Water Vapors	PhD	U Even D Hasse [N C State] P Coose G Smith D Stewart L Deavers
Thompson	James C	Anderson	Victor M	1983	Topics in Field Effect Capacitance Measurements	PhD	U J Even J C Dahm [Motorola, Austin] J Clement [Sandia Labs] L Deavers J McGuire H Williams J England

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Thompson	James C	Faintchtein	Raúl	1983	Optical Properties of Molton Alloys	PhD	U Even T-S Yih D Blanks M Anderson J Campbell C Yates L Deavers D Lowe
Thompson	James C	Bennett	Glenn T	1984	The Photoinjection of Electrons into Liquid Ammonia	PhD	R Coffman P R Antoniewicz A Donoho J C Villagran D K Blanks M C Anderson R Fainchtein
Thompson	James C	Coffman	Rebecca B	1986	Studies of Photoemission into Liquid Ammonia	PhD	P R Antoniewicz G T Bennett J C Villagran D Hampton G Weber

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Thompson	James Chilton	Yih	Tai-Sone	1981	Thermodynamics of Liquid Metal Alloys Containing Sodium	PhD	L Deavers J McGuire C Yates J Campbell
Turner	Jack	Garcia	Alex L	1984	Thermal Flucuations in Nonequilibrium Systems	PhD	R Edwards
Turner	Jack S	Lindberg	David M	1988	A Model Study of Complex Behavior in the Belousov-Zhabotinskii Reaction	PhD	W D McCormick H L Swinney J B Swift L E Koschmieder D Barkley J Ringland K Coffman

Advisor			Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Turner	Jack S	Ringland	John L C		1986	Numerical Techniques for the Investigation of Nonlinear Equations of Chemical Dynamics: And Their Application to a Model of the Belousov-Zhabotinskii Reaction	PhD	none
Turner	Jack S	Barkley	Dwight E		1988	Studies of the Complex Dynamics of the Belousov-Zhabotinskii Reaction	PhD	none
Udagawa	Takeshi	Price	Daniel R		1978	Semi-Classical Approximation of Heavy-Ion Scattering	M A	B Theis J McGuire H Williamson J England

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Udagawa	Takeshi	Hong	Seung-Woo	1987	Description of Heavy Ion Fusion in Terms of Direct Reaction Theory	PhD	T Tamura B T Kim W R Coker G W Hoffmann D Winget V Pedrocchi K Bhatt M B Jamaluddin
Udagawa	Takeshi	Kim	Byung-taik	1977	Coupled-Channel Analysis for Heavy-Ion Induced Scattering and Transfer Reactins	PhD	T Tamura W R Coker J Lynch L Ray K Weeks K Woods
Udagawa	Takeshi	Price	Daniel R	1981	Study of Breakup and Breakup-Fusion Mechanisms for Light and Heavy Ion Reactions	PhD	T Tamura W R Coker Y Kondo V Pedrocchi H Amakawa K Weeks



Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Udagawa	Takeshi	Li	Xian-hui	1984	Breakup-Fusion Description of Nonequilibrium Particles from Light Ion Induced Reactions	PhD	T Tamura W R Coker B T Kim V Pedrocchi L Ray M Bartlett C Burgess
Udagawa	Takeshi	Lee	Young Jae	1987	Breakup-Fusion Analysis of Light Ion Induced Stripping Reactions to Both Bound and Unbound Regions	PhD	Taro W Coker G W Hoffmann K Bichteler J Lumpe S Stotts M Purcell D Knoble

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Udagawa	Takeshi	Mastroleo	Ricardo C	1987	Breakup Fusion Theory of Nuclear Reactions	PhD	T Tamura P J Riley R L Ray H M Liljestrand M S Hussein S-W Hong Y-J Lee S Stotts
Udagawa	Takeshi	Knobles	David P	1989	Microscopic Nuclear Structure Calculations [sic] of Vibrational States for Spherical Nuclei	PhD	Y J Lee S Stotts H B Kim R Malestolero S W Hong A Gomez-Camacho M Naito K P Cheng

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Van Dam	James W	Fu	Guo-Yong	1988	Topics in Stability and Transport Tolomaks: Dynamic Transition to Second Stabiliy with Auxiliary Heating: Stability of Global Alfvén Waves in an Ignited Plasma	PhD	M Rosenbluth P Diamond R Hazeltine W Horton E Powers D Ross H Berk S Mahajan
Vanston	John H	Wilkinson	Michael L	1977	An Examination of the Supporting Technologies Necessary for the U S Fusion Program, Using the Partitive Analytical Forecasting [PAF] Method	M A	none
Vishniac	Ethan	Bust	Gary S	1989	Magnetic Field Generation in Astrophysics	PhD	none

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Wade	William H	De Rouffignac	Eric P	1979	The Theoretical and Experimental Study of the Thermal Properties Xenon Adsorbed on Graphite	PhD	G T Alldredge F W de Wette
Ware	Alan	Bolton	Curtis W, III	1981	The Ion Thermal Conductivity for a Pure Tokomak Plasma	PhD	F Hinton
Weinberg	Steven	Burgess	Clifford P	1985	Supersymmetry Breaking in Anti-de Sitter Space	PhD	P Candelas B DeWitt W Fischler
Weinberg	Steven	Gilbert	Gerald N	1986	Radiative Corrections in Higher-Dimensional Physics	PhD	W Fischler T Schimert R Woodward B McClain M Rubin
Weinberg	Steven	Quevedo Rodriguez	Fernando	1986	Topics in Supergravity and Superstring Phenomenology	PhD	C Burgess A Font J Lykken

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Weinberg	Steven	Rothman	Bernard D B	1987	Quantum and Thermal Effects in Higher Dimension	PhD	P Candelas W Fischler J Polchinski P Shapiro M A Rubinm B McClain M A Hausman D W Olson
Weinberg	Steven	Liu	Jun	1988	Topics in String Theory	PhD	J Polchinski W Fischler J Hughes A Bohm J C Wheeler C Burgess Y Cai S Carlip
Weinberg	Steven	Willenbrock	Scott S	1986	Production of Heavy Leptons and Quarks in High Energy Hadron Collisions	PhD	D Dicus J Polchinski S Nandi

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Wheeler	J Craig	Trice	Michael D	1976	Dynamical Collapse of Evolved, Very Massive Stars	MA	T J Mazurek C W Horton Sr D L Meier A J Martin
Wheeler	J Craig	Swartz	Douglas A	1989	Modeling Late-Time Atmospheres of Supernovae	PhD	none
Wheeler	John A	Juhl	Cory F	1987	An Evaluation of Three Alternative Interpretations of Quantum Mechanics	M A	none
Wheeler	John A	Jones	Thomas O	1983	Stimulated Emission and Black Holes	M A	none
Wheeler	John A	Bishop	Robert C	1986	The One-Dimensional Two-Body Problem in Action-at-a-Distance Electrodynamics and Corporate Degress of Freedom	M A	D Barnes R Matzner

Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Wheeler	John A	Gleichen	Paul H	1982	The Existence and Approximation of the Feynman Sum over Histories	M A	none
Wheeler	John A	Dean	William E	1984	Effect of Gravitational Radiation Reaction on a Three Body System	M A	none
Wheeler	John A	Thompson	Steven R	1983	A Pure Radiation Universe	M A	none
Wheeler	John A	Schumacher	Benjamin W	1990	Communication, Correlation, and Complimentarity	PhD	W K Woiters E Joos A Prieur J Bekenstein C Bennett D Deutsch F Kronz W H Zurek

Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Wheeler	John A	Pfautsch	Jonothan D	1981	Quantum Field Theory in Stationary Coordinate Systems	PhD	none
Wheeler	John A	Miller	Warner A	1986	Foundations of Null-Strut Geometrodynamics	PhD	A Kheyfets J York T Dombeck R Mennella M Razar
Wheeler	John A	Kheyfets	Arkady	1986	Austerity and Geometric Structure of Field Theories	PhD	S Bleiler D Deutsch C McCarter R Matzner W Miller W S Schleich L Shepley C Teitelboim



Advisor			Student	Year	Dissertation/Thesis Title	Degree	Others Acknowledged
[Mult Advsrs]	King		David H	1990	Mach's Principle and Rotating Universes	PhD	I Ciufolini G Ellis L Grishchuk L Shepley J York H Waeibroeck E Martinez A Prieur
Matzner, Richard A Wheeler, John A							
Wyatt	Robert E	D'Mello	Michael G	1990	Variational Quantum Reactive Scattering in Three Dimensions	PhD	J Bentley T-G Wei A Maynard L Thomas B Ramachandran J Wright M Menou C-M Huang
Wyatt	Robert E	Latham	Susan L	1977	Transition Probability Resonances in the Colinear Reactive Scattering of F + H <sub>2</sub>	M A	M J Redmon J McNutt

	Advisor		Student		Year	Dissertation/Thesis Title	Degree	Others Acknowledged
Wyatt	Robert E	Miller	Donald L		1986	Quantum Mechanics of Molecular Collisions	PhD	R F Nalewjaski
Wyatt	Robert E	Marston	Carling C		1984	Semi-Classical Prediction of Resonances in 3D Chemical Reactions	M A	none
Wyatt	Robert E	Shoemaker	Curtis L		1981	Internal Excitation Resonances in Symmetric Atom-Diatom Reactions	PhD	none
Wyatt	Robert E	Marston	Carling C		1986	Semi-Classical Formalism as Applied to the Computation of Resonant Energies and Associated Stationary State Wave Functions of the Fluorine Atom with the Hydrogen Molecule	PhD	none

## Appendix E: Senior Thesis Supervision at Princeton, 1938 – 1976, 1988 – 1994

Student		Year	Thesis Title	Advisor	
Karr	Thomas J	1971	$\text{Li}^7$ [ $\text{He}^3$ , d] and the Rotational States of $\text{Be}^8$	Adelberger	E J
Crawford	John D	1977	The Role and Implications of Quadratic Lagrangians in General Relativity	Adler	S
Ward	Benjamin G	1993	Squeezed Light	Aizenman	M
Landau	David P	1963	A Low Resolution Spectrometer for Detecting Nuclear Magnetic Resonance of Spin 1/2 Nuclei in Liquids	Ames	O
Lamont	Lawrence T, Jr	1962	A Determination of the Charge Residing on the Gamma Ray as Measured with the Mössbauer Effect in Iron-57	Ames	O
Futhey	John H	1960	An Attempt to Measure the Nuclear Spins of $^{38}_{19}\text{K}$ and $^{84}_{37}\text{Rb}$	Ames Brennan	O M
Kukala	James H	1977	Defects in Nematic and Cholesteric Liquid Crystals	Anderson	P
Sokol	Glenn	1978	Through the Looking Glass: An Overview of the Spin Glass Problem	Anderson	P W
Glance	Natalie	1989	Protein Folding by Simulated Annealing	Anderson	P W
Wong	Albert J	1991	The Emergence of Biological Wholes: An Ensemble Interacting Hopfield Model	Anderson	P W

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Pande	Vijay S	1992	Application of the Physics of Disordered Systems to the Evolutionary Dynamics of Primitive Forms of Life: Analytic and Computational Models of the Self-organization and Development of Autocatalytic RNA and Viruses	Anderson	P W
Allen	Theodore T	1991	Spin Density Wave Mean Field Theory and the Hubbard Model with Less Than Half Filling	Anderson Georges	P W A
Atalay	Michael K	1988	The Effects of Water Removal on Globular Proteins	Austin	R
Kinnell	Maud N	1988	Solitons in Acetanilide	Austin	R
Passner	Jonathan M	1989	A Study of the Dynamics of Several Short DNA Sequences using the Triplet Polarization Anisotropy Decay Technique	Austin	R H
Ivker	Mark	1991	Direct Observation of Reptation in Artificial Gel Environments	Austin	R
Gray	Cameron	1992	Experimental Studies into the Effects of Myoglobin Encapsulation within Rigid Polyacrylamide Gels on Temperature-Induced Denaturation	Austin	R H

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Collier	Wayne B	1994	Photoannealing, Photovoltaic, Photoresistive Effects in $\text{YBa}_2\text{Cu}_3\text{O}_{7-8}$	Austin	R H
Strick	Terrence	1994	DNA Electrophoresis in Microlithographically Constructed Sparse Arrays	Austin	R H
Tirschwell	Joel I	1959	Group Methods to Study the Symmetry Aspect of Quantum System	Bargmann	V
Hanle	Paul A	1969	A Search for an Excited State of the Neutron in the Reaction $n + p \rightarrow n + p + \gamma$	Bartlett	D
Cohen	Kenneth J	1964	[ d, $\text{Li}^6$ ] Reaction in the Nuclear $1f_{7/2}$ Shell	Bayman	B F
Smith	W Richard	1964	Shell Model Analysis of the $A^{39}$ Level Structure and the $A^{40} \rightarrow [\rho, d] A^{39}$ Reaction	Bayman	B F
Salkeld	Robert J	1954	The Theory of Skin Friction for Pipe Flow and its Direct Measurement with a Pendulum Balance	Bershader	D
Kleyna	Jan	1992	A Comparison of the Hodgkins-Huxley Neuron with a Filtered Threshold-Crossing Model	Bialek	W
Carrillo	Jose	1991	Photoproduction of Strange Mesons in the Reaction $\gamma + \rho \rightarrow \rho + K^+ + K^- + \pi^+ + \pi^-$ at 20 GeV	Bingham	H

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Klodner	Paul R	1975	An Introduction to High Frequency Scattering Theory: With a Thorough but not Unpleasant Guided Tour of Necessary Results from Asymtotic Analysis and Special Function Theory	Blaer	A B
Perez	Jose	1977	Calculation of Coulomb Corrections in Beta Decay	Blaer	A
Fong	Douglas G	1961	The Maxwell-Boltmann Equation	Blankenbecler	R
Sculli	John	1962	The Isospin Formalism and its Applications in the Strong Interaction	Blankenbecler	R
Panofsky	Wolfgang K H	1938	The Construction of a High Pressure Ionisation Chamber	Bleakney	W
Dahms	Oscar A, Jr	1947	Determination of Response as a Function of Pressure for Tourmaline Gauges and Relation of Impulse to Distance for Blast Waves in Air	Bleakney	W
Linhart	Peter	1948	Reflection of Plane Shocks in Air from a Cylindrical Obstacle	Bleakney	W
Goins	Neal R	1973	Interpretations of Gravity Anomalies of the Western Approaches to the Strait of Gibraltar	Bonini [Civ Eng]	W
Holt	Robert	1973	The Origins of Multicellularity	Bonner	J

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Binkerhoff	Richard Fowler	1941	Positive Philosophy in Modern Science	Bowers [Philosophy]	
Henkel	Joel E	1952	A Hollow Cathode Lamp for Small Samples	Bradley	L
Hartle	James B	1960	The Gravitational Geon	Brill	D
Hallet	John D	1941	Ultra-High Frequency Generation with Emphasis on the Klystron	Brown	W F
Primack	Joel R	1966	Unified Model Calculations in Fission Theory	Brown	G E
Grimes	Mikal K	1989	Investigation of the 21.4 MeV Level in $^{13}\text{C}$ via the $^{10}\text{B}[^9\text{Be}, ^6\text{He}]^{13}\text{N}$ Reaction	Brown	J D
Saltzberg	David P	1989	Gamma Ray Spectroscopy as a Diagnostic of Accelerated Particles in Solar Flares: Theory and Experiment	Brown	J D
Mateos	Arthur	1991	A Search for Light Exotic Nuclei in the Reaction $^7\text{Li} + ^{11}\text{B}$	Brown	J D
Hamilton	John D	1966	A Photographic Assay for the Phototactic Circadian Rhythm in <i>Euglena</i>	Bruce Devlin	V G T
Hixon	Todd L	1972	Near-Ultraviolet Spectroscopic Studies of a Quasi-Steady Magnetoplasma dynamic Arc	Bruckner [Mech]	A
Cuddy	Stephen R	1975	Enzyme Substrate Binding in Subtilisin BPN'	Bush {Biochem}	B
Chupp	Timothy E	1977	The $\text{O}^+ \rightarrow \text{O}^+$ Pair Transformation in $^{16}\text{O}$	Calaprice	F

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Fraser	Andrew M	1977	A Measurement of the $^{28}\text{Al}$ Beta Spectrum	Calaprice	F
Prosnitz	Eric W	1977	A Measurement of the $^{20}\text{F}$ Beta Spectrum	Calaprice	F
Vitale	Thomas M	1977	A New Measurement of the Half-Life of $^{19}\text{Ne}$	Calaprice	F P
Bunn	Emory F, II	1989	Frequency Shifts in the Magnetic Resonance Spectra of Argon-37 and Krypton-85 Due to the Presence of Polarized Potassium Vapor	Calaprice	F
McGucken	Elliot	1991	A Proposal for a New Test of Time Reversal Invariance, and a Test of a New Micron Silicon Detector [A Dialogue between Curiosity and Perseverance]	Calaprice	F P
Groggin	Norman	1992	An Experiment to Detect Heavy Neutrino Emission in Nuclear Beta Decay Spectra	Calaprice	F
Prochaska	Jason X	1993	The Design and Fabrication of Optimal Light Collectors for the CTF Upgrade	Calaprice	F P
Krieger	David A	1994	Spin-Exchange Optical Pumping of $^{36}\text{K}$ : Produced via $^{36}\text{Ar}[p,n]^{36}\text{K}$	Calaprice	F
Levada	Andrew J	1972	A New Measurement of the $^{35}\text{Ar}$ Branching Ratios and a Calculation of the Vector Coupling Constant	Calaprice	F



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Hecht	Michael H	1974	An Investigation of Gamma-Ray Decay from Preferentially Populated $[f7/2-]_2^2$ $J=7^+$ Levels, From the Reactions $^{36}\text{Ar} [a,d] ^{38}\text{K}$ and $^{40}\text{Ar}[a,d] ^{42}\text{K}$	Calaprice	F
Chu	James K	1978	Branching Ratio Measurment of the 7.11 MeV $1^- \rightarrow 0^+$ Pair Decay in $\text{O}^{16}$	Calaprice	F
Kahn	Ronald N	1978	An Experimental Test of CVC: The $^{20}\text{F}$ Beta Decay Spectrum	Calaprice	F
Kleppinger	William E	1978	The Beta Assymetry of Polarized $^{19}\text{Ne}$ : New Experimental Evidence for Second Class Currents	Calaprice	F
Loughnane	Paul	1989	A Search for Resonances in Bhabha Scattering at MeV Energies	Calaprice Hallin	F A
Berger	Bruce	1992	A Search for Evidence of a 17 keV Neutrino in the $\beta$ -Decay Spectrum of Cesium 137	Calaprice Hallin Smith	F A A J S
Grossman	Bernard S	1976	Guage Theories of the Weak Interaction with Right Handed Couplings	Callan	C
Bradley	Lee C, III	1947	An Experiment in Brownian Motion	Campbell	E C
Margolin	Myron	1958	The Resonance Radiation in the Region 7800Å of $\text{Rb}87$ Excited by Light of Natural	Carver	T R

Student		Year	Thesis Title	Advisor	
			Rubidium		
Silber	Howard A	1959	Some Low Temperature Experiments	Carver	T R
Kinsey	James H	1960	Some Experimental Observations of the Resonance Radiation from K and Rb Lamps	Carver	T R
Ramsey	Alan, T	1960	The Detection of Optical Pumping by Back-Scattered Light	Carver	T R
Burnham	David P	1961	Nuclear Magnetic Resonance in Small Magnetic Fields	Carver	T R
Lewis	Frank R, Jr	1961	A Practical Filter for Improving D <sub>1</sub> :D <sub>2</sub> Sodium Light Intensity Ratios and its Application to Optical Pumping	Carver	T R
Carolan	James, Jr	1962	Electron Spin Resonance in Calcium and Strontium	Carver	T R
Partridge	R B	1962	A Possible Approach to the Optical Pumping of Hydrogen	Carver	T R
Smith	Richard C	1962	A Filter Which Reduces the Intensity of the Sodium D <sub>2</sub> Line and its Effect on Optical Pumping	Carver	T R

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Donner	George R, Jr	1963	Double Quantum Transitions Involving Two Distinct Frequencies: Production and Detection in Rubidium <sup>87</sup>	Carver	T R
Kirkpatrick	E Scott	1963	Optical Pumping in Sodium-Ammonia Solutions	Carver	T R
Matlack	Richard W	1963	Laser Induced Multiple Quantum Phenomena	Carver	T R
Hocker	Lon, III	1964	The Design and Construction of a Wideband High Gain Laser Cavity	Carver	T R
Fehl	John F	1966	A Treatise on the Mechanisms of Laser Operations and the Construction of an Infrared Gaseous Laser	Carver	T R
Wyeth	N Converse	1967	The Construction of a Getter Sputtering Apparatus	Carver	T R
Farber	Robert E	1970	The Superconducting Mixed State of the Gyromagnetic Ratio	Carver	T R
Irby	John	1971	The Mechano-Chemical Collagen Engine: Theory and Practice	Carver	T R
Tien	Julia J-W	1976	An Investigation of Parallel Field Magnetic Transmission in GD	Carver	T R
Riedesel	Mark	1977	An Apparatus for Measuring Low Field Magnetic Susceptibilities	Carver	T R

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Coderre	Harold T	1978	The Design and Construction of a Superconducting LC Resonator	Carver	T R
Gondicas	Dimitri H	1978	Energy Supply - Demand Analysis for Greece	Carver	T R
Thornbury	Craig E	1967	Spin Exchange in the Optical Pumping of Sodium and Rubidium Mixtures	Carver Partridge	T R R B
Hudgin	Richard H	1967	Tunneling: The Barrier and the Electric Field Penetration Depth	Carver Schnatterly	T R S
Meneely	Clinton T	1963	Preliminary Investigation of a Sodium-Mercury Gaseous Laser Mixture	Carver Shenstone	T R A G
Lopez	David	1988	Florescence Monitoring of Rb $D_2:5^2S_{1/2} - 5^2P_{3/2}$ Hyperfine Transitions with $Al_xGa_{1-x}As$ Diode Laser of High-Precision Wavelength Tunability	Cates	G D
Fitzgerald	Richard J	1989	Alkali-Glass Surface Interactions and Their Contributions to Noble Gas Spin Relaxation	Cates	G
Katine	Jordan A	1991	The Temperature Dependence of the Relaxation Rate in Polarized $^{129}Xe$ Cells	Cates	G

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Mabuchi	Hideo	1992	Wall-Relaxation Mechanisms for Polarized Noble Gasses	Cates	G
Ullom	J	1993	The Production of Long-Lived Transversely Polarized States of $^3\text{He}$	Cates	G
Chubb	Scott	1975	Aluminum Diffusion in Tokomaks	Cecchi	J
Lee	Ernest	1994	Magnetization Studies on the Organic Superconductor $[\text{TMTSF}]_2\text{ClO}_4$	Chaiken	P
Gelfand	Boris Y	1989	Nonlinear Conductivity in the Field Induced Spin Density Wave State of $[\text{TMTSF}]_2\text{ClO}_4$ Organic Metal	Chaikin	P
Johnson	Paul R	1991	Magnetoresistance Effects in $\text{TMTSF}_2\text{ClO}_4$	Chaikin	P
Young	Sang Lee	1993	Diffusing Wave Spectroscopy on a Colloidal Crystal	Chaikin	P
Cella	Charles	1988	A Measurement of the $^{27}\text{Al}[\rho, \alpha]^{24}\text{Mg}$ Reaction Rate	Champagne	A
Blue	Linda J	1991	High Current Breakdown of the Dissipationless Quantum Hall Effect	Chang [Bell Labs] Austin	A M R H
Stuart	James G	1970	The Integral Momentum Spectrum of Cosmic Ray Muons	Chen Sober	K W D I

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Von Lintig	Richard	1970	The Positive Excess of Cosmic Ray Muons	Chen Sober	K W D I
Kantsiper	Brian	1992	Linear Wave Theory Model for Space-Based CIV Experiments	Choueiri	E
Koch	Thomas L	1977	Self-Generation of Magnetic Fields in Laser-Produced Plasmas and Their Effects on Laser Absorption in the Single Particle Picture	Chu	T K
Kaplan	Steven B	1971	Application of the Plasma Chromatograph to Trace Analysis of Air Pollution	Cohen	M
Kober	Michael	1964	A New Method for the Determination of the Spin and Parity of Certain Resonances	Cook	L F
Beggs	George E , Jr	1938	Acoustics of the Princeton Playhouse	Cook	L
Luhman	Gary	1960	The Application of the Fermi Statistical Model to Proton, Antiproton, Annihilation	Cook	L F
Michaelides	Paul A	1987	Phase-Locking Effects in a Critically Perturbed Dissipative Standard Map	Coppersmith	S N
Rahm	Liz	1975	A Look at Some of the Properties of French Horn Mouthpieces	Coyne	D R
Ogden	Peter M	1974	H $\beta$ Search for Intergalactic Hydrogen	Crane	P

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Green	James M	1975	Measurements of Color Gradients of Galaxies	Crane	P
Chubb	Charles T, Jr	1941	Characteristics of Argon-Alcohol Counter Tubes	Creutz	E C
Kriesler	Micheal N	1962	A Measurement of the $\Delta^0$ Lifetime Using Spark Chambers	Cronin	J W
Nicholson	Robert H	1963	Lifetime Measurement and Spark Chamber Observation of Muon Decay	Cronin	J W
Bowman	Bruce E	1967	The Quadratic Coefficient of the Matrix Element in Kaon Decay to Three Neutral Pions	Cronin	J
Eriksen	Donald	1964	Measurement of the Lifetime of the $K_1^0$ Meson	Cronin Christensen Vernon	J J W
Pulver	Simone	1991	PcP-P Differential Travel Times and Lateral Heterogeneity in the Lower Mantle	Dahlen	T
Alexander	Martin	1963	The Elastic Constants of Cubic Crystals	Daniels	W B
Hardy	William H, II	1969	Experimental Determination of the P-T Melting Curve of Argon	Daniels	W B

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Lewis	William F, II	1971	The Isochoric Measurement of the Equation of State of Solid Argon and Solid Methane at High Pressure	Daniels	W B
Chesnutt	James H	1964	A Theoretical Equation of State for Solid Argon and Experimental Attempts to Verify It	Daniels Smith [Mec]	W B P A
Skoultchi	Arthur I	1962	Optical Observations of the High-Pressure Polymorphic Transformation of RbI	Daniels Smoluchowski	W B R
Bar-Gadda	Uzi	1971	The Role of Time Delay, Cross-Section, and Action in a Classical Interactive Dilute Gas	Dashen	R
Weiner	Joseph S	1977	Electrical Discharge in Helium Gas Below 4.2°K	DeConde	K
Farber	Allan S	1978	The Perpendicular Motion of Surface Electrons on Thin Films of Liquid Helium	DeConde	K
Whitlock	James P Jr	1964	$\pi^+ \rightarrow \rho$ Total Cross Section at 890MeV/C	Devlin	T J
Martin	Charles F II	1966	A Measurement of the Total Cross Sections of Neutrons on Protons in the Energy Region 50MeV to 250 MeV Using Time-of-Flight Analysis	Devlin	T J
Pond Cannon	T Alexander Walter F	1947	On Power Broadening in the Ammonia Inversion Spectrum	Dicke	R H



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Elgin	James M, Jr	1949	Focusing of X Radiation by Curved Crystals	Dicke	R H
Powsner	Henry Joel	1950	A Study of Techniques Involved in the Construction of Evaporated Metal Bolometers	Dicke	R H
Griffiths	Robert Buddington	1957	Coherent Emission Atomic Beam Light Source	Dicke	R H
Hess	George B	1958	The Annual Variation of the Length of the Day as Evidence Relating to a Theory of Gravity	Dicke	R H
Murphy	Charles T	1959	The Effect of a Varying Gravitational Constant on Heat Flow from the Earth	Dicke	R H
Beron	Bruce L	1964	A Solar Rotational Mode	Dicke	R H
Cathles	Lawrence M, III	1965	The Physics of Glacial Uplift	Dicke	R H
Burek	Anthony	1968	Conservation Laws for the Scalar-Tensor Theory and Scalar Gravitational Radiation	Dicke	R H
Nass	Michael J	1977	A Dielectric Theory of Gravity	Dicke	R H
Berkovitz,	Dan M	1978	Implications of Brans-Dicke Cosmology on the Temperature History of the Earth	Dicke	R H
Wolanin	Peter	1994	Electron Spin Resonance of Photosystem II at 34 GHz	Dismukes Eisenberger	C P

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Petrescu	Iuliana	1991	Low Energy Scattering of CP <sup>1</sup> Lumps in [2+1] Dimensions	Distler	J
Moore	Geneva F	1988	Seven-Fold Symmetric Quasicrystals: Symmetries, Diffraction Patterns, and Elasticity Properties	Dixon	L
Newman	Steven A	1969	Exciton Effects: The Optical Absorption Coefficient of a Semiconductor in a Uniform Applied Electric Field	Dow	J
Arentsen	Carl E	1972	Liquid Crystals: A Study Focused on the Effects of Electric Fields on the Cholesteric Mesophase	Dow Carver	J T R
Leheny	Robert	1989	The Application of Schwarzschild's Solution to Off-Axis Feed Systems	Dragovan	M
Loring	Gregory M	1990	A Land Based Measurement of Solar and Lunar Surface Temperatures	Dragovan	M
Richman	Sam	1990	The Beam Pattern of a Schwarzschild Solution Telescope in the Microwave Range	Dragovan	M
Rostker	David J	1993	A Computational Ray-Tracing Model of Physical Optics based on Huygens' Principle	Dragovan	M
Quintana	Benjamin L	1994	Atmospheric Opacity of the South Pole Measured at the 80-600 GHz Range with a Fourier Transform Spectrometer	Dragovan	M

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Giovannone	John J	1972	Proportional Counters: Modern Design Considerations	Duray	J
Found	George H	1940	An Experimental Investigation of the Internal Friction in Metals	Dushman [GE Labs]	S
Putnam	Peter	1948	Considerations Concerning Nature	Eddington	A
Berry	Brendan, C	1991	Multilayer Thin Film Optics	Eisenberger	P
Liang	Haifan	1992	On the Switching Times of the Twisted Smectic C Ferroelectric Liquid Crystal Electro-optic Modulator	Eisenberger	P
Jackson	Andrew W	1994	Structure Determination of a Quasi-Epitaxial Organic Thin Film	Eisenberger	P
Barat	Samiran	1992	An Investigation into the Variation Under Rotation of the Coupling Efficiency of Single Mode Optical Fibers	Eisenberger Littman	P M
Boetcher	David A	1966	Josephson Currents in Superconductors with Paramagnetic Impurities	Engelsberg	S
Moo-Young	George A	1965	The Determination of the Number Density of Unexcited Hydrogen Atoms in Plasma Discharge	Eubank	H P
Hayes	Andrew W	1988	A Study of the Propagation of Gaussian Laser Pulses in Absorbing Media	Fauchet	P

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Tucci	Angela T	1988	Characterization of Femtosecond Optical Pulses by Interferometric Autocorrelation Techniques	Fauchet	P
Maysonett	James A	1994	An Analysis of the Viability of the Detection of Covert Nuclear Fuel Reprocessing Through $^{85}\text{Kr}$ Emissions	Feiveson	H
Elser	Alfred Uihlein, Jr	1956	Scintillation in Čerentkov Counters	Fitch	V L
Adams	Cyrus	1961	Scintillation Quenching in Polystyrene	Fitch	V L
Kirk	Paul N	1963	A Measurement of the Density Effect in NaI [T1] and Pilot B PlasticFitch	Fitch	V L
Wood	David M	1974	Seeding Effects of Aircraft Condensation Trails	Fitch	V L
Snow	Gregory R	1976	The Two-Photon Spectrum from $p\bar{p}$ and $\pi\bar{p}$ Interactions	Fitch	V L
Troutman	Charles R, III	1956	$\mu$ -Mesonic X-Ray Spectrum of Iron	Fitch Gursky	V L H
Fox	John D	1952	An Investigation of a Proportional Counter	Franzen	W
Alyea	E D, Jr	1953	An Experimental Study of the Distribution in Energy Loss for Heavy Charged Particles Passing Through Thin Absorbers	Franzen	W

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Kadin	Alan M	1974	An Experimental Test of the Bohm-Bub Hidden Variable Theory	Freedman	S J
Greenhalgh	John F	1976	Experimental Study of the Beta-Alpha Angular Correlation in $^{20}\text{Na}$	Freedman Garvey	S J G T
Mon	John Kin-Keung	1973	Ensemble-Averaged Eigenvalue Distribution for k-Body Interaction in Many-Particle System	French	J B
Silman	Eric J	1962	Microwave Determination of Electron Density Profiles in Fusion Plasma	Frieman Gorman Motley	E J R
McDonald	John	1975	Scattering Representations and the Infrared Divergence	Fröhlich	J
Lipkin	Daniel Morris	1949	A New Type of Electronic Counting Unit Containing a Basic Charge-Stabilizing Device	Fulbright	H W
McCutchen	C W	1950	Electron Drift Velocity in Argon Filled Ion Chambers	Fulbright	H W
Weinstock	Eugene V	1950	A Non-Belt Type Electrostatic tactic Generator	Fulbright	H W
Kutner	Marc L	1968	The Longitudinal Polarization of Beta Particles from the Decay of $\text{Co}^{60}$	Garvey	G T

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Miller	Randolph A	1971	A Sub-Nanosecond Accuracy Cyclotron Beam Timing Pickoff Unit: A Feasibility Study	Garvey	G T
Bussoletti	John	1972	Isospin Purity of the 5.607 MeV and 5.674 MeV States in $^{18}\text{F}^\uparrow$	Garvey	G T
Hoyle	C David	1973	Cyclotron Beam Flucuations in Relation to Accidental Coincidences	Garvey	G T
Cousins,	Robert D	1976	Beta-Alpha Angular Correlations in $^8\text{Li}$ , Using a Helium Jet Recoil Transport System	Garvey Freedman	G T S J
Jaffe	Robert L	1968	Form Factors for Two Nucleon Transfer Reactions	Gerace	W
Sparrow	David A	1969	The Effect of Short Range Correleations Calculated using Realistic Wavefunctions on Nuclear Charge Form Factors	Gerace	W
Moog	Thomas H	1975	$L_{2,3}$ X-Ray Absorption Edge in Aluminum	Gibbons	P
Greene	Erich J	1991	Preparation of a $^{178}\text{Hf}$ Source for Time Reversal Asymmetry Experiments	Girit	C
Fitch	Michael J	1992	Prliminary Studies Toward Parity Experiment in $^{178\text{m}}\text{Hf}$	Girit	C

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Andalkar	Amar	1994	A Study of Parity Violation in $^{207}\text{Pb}$ through Low-Temperature Nuclear Orientation	Girit	C
Everett	Allen E	1955	On the Decay Scheme of 2.3 Year Cs134	Glaubman	M J
Kayser	Boris	1960	Classical Description of Scattering of Particles with Magnetic Moments	Goldberger	M L
Van Goldman	Martin	1960	Integral Transform Analysis of Dispersion in Linear Systems with Special Reference to Dielectric and Superconductor Theory	Goldberger	M L
Henkin	Charles J	1964	Time Delay in some Simple Scattering Systems	Goldberger	M L
Young	Patrick S	1972	Scaling, Light-Cone Current Commutators, and the Inclusive Reaction $e^+ + e^- \rightarrow \mu^+ + \mu^- + X$	Goldberger	M L
Haydock	Roger	1968	Approximation of Distribution Functions for Thermodynamic Equilibrium	Goldberger Wigner	M L E P
Knight	James B	1991	Applications of Gradient Percolation to Mercury Injection in Porous Media	Golden	K
Rubin	Ron S	1992	Geometric Connections in Vortex Dynamics and Integrable Nonlinear Pde's	Goldstein	R
Lubensky	David K	1994	Curve Motion in Two-Dimensional Creeping Flow	Goldstein	R

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Craig	David A	1988	Techniques for Investigating the Topology of Large-Scale Structures in the Universe	Gott	J R, III
Headrick	Matthew P	1994	2+1 Dimensional Spacetimes Containing Closed Timelike Curves	Gott	J R, III
Bingham	Harry H, Jr	1952	An Experimental Check of Transonic Similarity Theory for a Circular Cylinder	Griffith	W C
Hannum	William H	1954	Intermittency of a Two Dimensional Jet as Investigated with a Hot-Wire Anemometer	Griffith	W C
Weeks	Richard F	1954	A Small Spark Acutated Shock Tube for Luminosity Studies in Argon	Griffith	W
Longcor	Steven W	1973	Autocorrelation Analysis of Double Star Scintillation	Groth	E J
Cohen	Douglas	1974	Equilibrium Star Densities around Large Black Holes	Groth	E J
Resnick	Mitchel	1978	Some Implications of the Theory of Density Fluctuations in the Universe	Groth	E
O'Brien	John P	1989	A New Method of Mapping the Temperature-Water Chemical Potential Phase Diagram of Phospholipids	Gruner	S
Zerger	Linda M	1989	The Study of the L $\alpha$ - HII Phase Transition Using Monodomain	Gruner	S M



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Ijiri	Yumi	1991	Studies on Charged Phospholipid-Water Phase Behavior	Gruner	S
Polcyn	Adam D	1992	A Study of the Effect of Negative Pressure on the H <sub>II</sub> Phase of the DOPE/Water System	Gruner	S
McGehee	Micheal D	1994	Self-Assembling Mesoscopic Surfactant/Silicate Materials	Gruner	S
Feiner	Frank	1950	Proton and Neutron Spectra	Gugelot	P C
Brill	Dieter R	1954	On the Delay Scheme of Titanium <sup>45</sup>	Gugelot	P C
Jones	Keith W	1950	An Attempt to Use the Ferroelectric Crystal NaCbO <sub>3</sub> as an Alpha Particle Counter	Gugelot	P C
Dittman	R P	1950	Measurement of Neutron Spectra from [p,n] Reactions in the Heavy Elements	Gugelot Wightman	P C A S
Birmingham	John T	1989	Anisotropic Resistivity in Single Crystal Bi <sub>2</sub> Sr <sub>2</sub> CuO, High T <sub>c</sub> Superconductors	Hagen	S J
Strauss	Jay	1989	The Design of a Seperated Isotope Beamline	Hallin	A
Grant	John M	1950	Nerve Models	Hamilton	D R
Waddell	John Henry, III	1950	Hydrodynamic Field Analogies to Electric Fields: Solutions to Grid Ionization Chamber Problems Utilizing the Analogy	Hamilton	D R

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Simon	Ralph E	1952	The Theory and Design of an Electron Microscope	Hamilton	D R
Hasson	K C	1989	Freezing of a Spin Polarized Gas	Happer	W
Stoller	Scott	1990	A Numerical Investigation of the Eigenvalues and Eigenfunctions of the Operator $D \frac{d^2}{dz^2} + ibz$	Happer	W
Fox	David	1991	Relaxation of Polarized $^{129}\text{Xe}$ by a Spin Rotation Interaction	Happer	W
Liu	Pak Wai	1971	Economic Growth and Educational Profile International Development: A Quantitative Approach	Harbison [ECON]	F
Butz	A Nelson	1938	A Study of the 6L6 and 59 as Negative Resistance Devices	Harnwell	G P
Butz	Donald B	1938	A Direct Current Voltage Multiplication Circuit	Harnwell	G P
Stahl	N M	1938	Current Regulation Through Magnetic Saturation	Harnwell	G P
Hill	David A	1951	Liquid Scintillating Solutions	Harrison	F B
Borthwick	David	1988	Magnetic Monopoles and Kaluza-Klein Theories	Harvey	J

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Gnanadesikan	Anand	1988	Aspects of Geostrophic Turbulence: A Report on Senior Independent Work	Held	I
Blau	Lawrence M	1959	The Determination of the Spins and Parity of the Excited Levels in Hafnium 178	Hill	H A
Lanza	Richard C	1959	The Reaction Cross-Section for $F^{19}[p,n]Ne^{19}$ and $F^{19}[p,n\alpha]O^{15}$	Hill	H A
Sperling	S Martin	1960	The Angular Distribution of Deuterons from the Reaction $Ni^{60}[p,d]Ni^{59}$	Hill	H A
Petzinger	Kenneth G	1963	The Compton Effect	Hill	H
DeWolf	J B	1964	Measurement of the Size of Stellar Images During the Day	Hill	H A
Linwood	L Lee	1950	The Geiger-Müller Tube as a PhotoElectric Quantum Counter	Hofstadter	R
Giovanielli	Damon V	1965	Helicon Wave Propagation in Indium Antimonide	Hooke	W
Cherlow	Joel	1966	Raman Scattering in Gallium Phosphide	Hopfield	J J
Andrich	Mary	1974	Biophysical Applications of Light Beat Spectroscopy	Hopfield	J J
Bergey	Philip D	1974	Possible Explanation of Reversal in Magnetic Circular Dichroism in Hemoglobin	Hopfield	J J

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Nelson	Alfred T, Jr	1975	Laser Light Scattering Investigations of Muscle	Hopfield	J J
Webb	Tom	1975	Cytochrome c Electron Transfer: A Flash Photolysis Study	Hopfield	J J
Marcus	Aaron	1965	Determination of the [1, 0, 0] Electronic Effective Mass in a Gallium Phosphide Semiconductor by means of Raman Scattering	Hopfield	J J
Stephan	Craig H	1965	Anomalous Conductance Effects in Magnesium Tunnel Junctions	Hopfield	J J
Parunak	Henry V	1969	Raman Scattering in Ammonium Chloride	Hopfield Schnatterly	J J S
Tillier	Clemens E	1994	Pointing of a Balloon-borne Instrument Platform	Jarosik	N C
Brillson	Leonard J	1967	Tunneling Effects at Thin Superconducting Junctions	Jasperson	S
Gross	Eugene P	1946	Charge Independence	Jauch	J M
Rangarajan	Raghavan	1988	Localization of Light in Dielectric Lattices	John	S
Georgakis	Kyprianos	1989	Classical Waves in Dielectric Lattices	John	S
Weber	Stephen V	1973	Turbulent Photogalaxies	Jones	B J T
Dasannayake	Ujitha M	1992	A Study of the CuBr [110] Surface	Kahn	A

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Edwards	Jonathan D	1991	Two-Dimensional Quantum Gravity and the $c = -2$ Matrix Model	Kelbanov	I
Gubser	Steven S	1994	Geodesic Distance in Two-dimensional Quantum Gravity	Kelbanov	I
Caldo	Giuliano	1991	An Improved Numerical Study of MPD Thruster Physics	Kelly	A J
Kittleberger	James E	1951	The Use of the Parallel Plate Counter as a Means of Studying High Energy Particle Paths	Keuffel	J W
Muller	John Hubert	1949	A Proton Magnetic Field Control	Knight [Brookhaven]	W
Lee	Edward V	1966	A Theoretical and Experimental Study of Light Scattering in a Latex Colloid	Kostin	M D
Yau	Lawrence K-W	1971	Some Theoretical Aspects of Biological Transport	Kostin [Ch-eng]	M
Ali	Syed N	1988	Efficiency Measurements and Background Reduction in Germanium Gamma-Ray Detectors	Kouzes	R T
Chen	Christine	1989	Electron Velocities Through Xenon Germane Mixtures	Kouzes	R

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Herold	Lori K	1990	Gamma Ray Production Cross-Sections Relevant to the Study of Solar Flares: $^{12}\text{C}[\alpha, \alpha'\gamma_{4.439}]^{12}\text{C}$	Kouzes	R T
Stock	Robert D	1990	Monte Carlo Modeling of the Sudbury Neutrino Observatory	Kouzes	R T
Sivak	Gary	1972	The Korteweg-deVries Equation: A Study of the Numerical Approaches to the Solution of Nonlinear Physical Systems	Kruskal	M
Boris	Jay P	1964	Magnetohydrodynamic Thermal Convection in an Infinite Rectangular Channel	Kulsrud	R
Pachunder	Harald G	1972	Mathematical Preliminaries for Charged Particle Dynamics in Plasma	Kulsrud	R M
Larson	J	1942	Absolute Concentration of Slow Neutrons	Ladenburg	R
Nickerson	Bruce G	1972	An X-Ray Diffraction Search for Conformational Searches in DNA at Dishwater Temperatures	Langridge [Biochem]	R
Zellicoff	Alan P	1975	Application of Model Building and Energy Minimization Techniques to Intercalative Binding Mechanisms in DNA	Langridge [Biochem]	R
Blau	Frederick P	1962	An Investigaton of the Optical Properities of Magnets	Lemonick	A

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Pollack	James B	1960	Investigations into Shell Models of the Nucleus	Levinson	C
McComas	J Glenn	1960	Some Aspects of the [d,p] Reaction	Levinson Warburton	C E K
Betterton	Meredith	1994	Microtubules and Vesicles	Libchaber	A
Keat	Justin	1994	Order and Disorder in a Gas	Libchaber	A
Adam	Ian	1990	Monotonicity of the Born-Oppenheimer Electronic Ground State Energy in the Nuclear Coordinates	Lieb.	E
Freedman	Daniel	1993	Time Evolution of Cellular Aggregates: A Theoretical Study of Soap Froth in Two and Three Dimensions	Liebler	S
Shapiro	Harris	1994	Random Walks in Biophysics	Liebler	S
Cherry	Michael L	1971	A Two-Dimensional Numerical Simulation of Penetrative Convection	Lipps	F B
Cameron	Seth A	1989	Quantum Amplitude Fluctuations in a Single Mode Pulsed Laser	Littman	E R
Rayman	Marc D	1978	A Study of the Polarization of the Light from the Filamentary Structure of M82: Evidence for an Intergalactic Dust Cloud	Loh	E

Student		Year	Thesis Title	Advisor	
Mohr	Christopher R	1988	Development of a Cryogenic Bolometer as an X-Ray Spectrometer	Lowry	M M
Damodarin	Kumaran K	1994	Simplified Equations for the Nonlinear Interaction of Vortex Filaments in 3D	Majda	A J
Williams	Gareth	1972	Some Aspects of Chemisorption on CdS and Techniques for Studying Them	Mark	P
Wallmark	John T	1974	Photovoltaic Measurements on an Insulating CdS Crystal Correlated with Photoconductive Data	Mark [E Eng]	P
Letts	James R	1988	A Cosmic Ray Measurement of the Muon Magnetic Moment: A Consequence of Parity Violation in the Decays $\pi^+ \rightarrow \mu^+ \nu_\mu$ and $\mu^+ \rightarrow e^+ \nu_e \bar{\nu}_\mu$	Marlow	D
Bjorkholm	Paul J	1964	$\text{Sc}^{45}$ , $\text{Ti}^{46}$ , $\text{Ti}^{47}$ , and $\text{V}^{51}$ Reactions Induced by 17.5 MeV Protons	McCullen	JD
Dunn	Eric	1992	Secondary Electron Emission from Low-Density Films and its Implications for Particle Detection	McDonald	K
Hosoi	Anette	1992	Knotted Solutions to Partial Differential Equations	McLaughlin Goldstein	D R
Ogden	Dana P, Jr	1949	Current Control and Trajectories for Helical Focusing Thin Lens Beta Ray Spectrometer	Meuther [grad student]	H



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Rakitzis	Byron	1990	Parallel Computation, Geometry and an N-Body Problem	Migdal Agishtein	A M
Falcone	Roger W	1974	A Measurement of the Lifetime of the First Excited State in Nitrogen	Miles [Aero]	R
Dubman	Morton R	1957	Geometric Representation of Ideal Mass Particles in the General Theory of Relativity	Misner	C W
Hershendorfer	Alan M	1958	The Effect of Mercury's Quadrupole Moment on the Precession of its Perihelion	Misner	C W
Korenman	Victor	1958	The Null Case in an Already Unified Field Theory	Misner	C W
Snyder	Ralph B	1959	Misner's "Cautious" Coordinates for General Relativity	Misner	C W
Mills	Allen P, Jr	1962	The Appearance of Spherically Symmetric Objects with Radius Comparable to $2mG/c^2$	Misner	C W
Peasley	David Chase	1943	Cv and Frequency Spectrum of a Body-Centered Crystal: Born-voná	Montroll	E W
Bell	David M	1973	Light-Beat Spectroscopy on the Crayfish Ventral Nerve Cord	Moore	W
Dinescu	Liviu, E	1977	[p, $\tau$ ] Spectroscopy of the $^{203}\text{Pb}$ Nucleus	Mueller	D
Lombardi	James C	1993	Pulsar Evolution Models	Narayan	R

Student		Year	Thesis Title	Advisor	
Smith	David H	1965	The Experimental Determination of the Elastic Scattering Cross Section of Proton - Proton Interaction in the Hydrogen Bubble Chamber	Nauenberg	U
Dohan	F Curtis, Jr	1957	An Investigation of Some Neutron Deficient Tantalum Isotopes the Identification of Ta <sup>175</sup>	Naumann	R A
Murphy	Peter W	1958	Theory of Geiger Counter Operation	Naumann	R A
Vroombout	Leo O	1962	Observation of the K-Capture Decay of Terbium-157	Naumann	R A
Schmidt	P	1965	Levels in Rh <sup>103</sup> Populated by the Decay of Pd <sup>103</sup>	Naumann	R A
Thun	R P	1965	Experimental Investigation of the Gamma-Ray Transitions in Tantalum-182 which result from the Beta-Decay of Hafnium-182	Naumann	R A
Lightman	Alan	1970	Design and Construction of a Gas Scintillation Detector Capable of Time-of-Flight Measurements of Fission Isomer Decays	Naumann	R A
Derbes	David R	1974	Determination of the Magnitudes of Electric Field Gradients in Metallic Crystallin Lattices by Perturbed Angular Correlation Methods	Naumann	R A

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Lampert	Mary E	1988	Thermodynamic Study of the $\text{YBa}_2\text{Cu}^3\text{O}_x$ System	Navrotsky	A
Lysne	Joann A	1993	In Situ High Temperature Calorimetric Study of Order-Disorder in $\text{NiAl}_2\text{O}_4$ Spinel	Navrotsky	A
Moore	David L	1975	Harmonic Oscillator in a Heat Bath	Nelson	M
Steidley	Adam L	1993	An Experimental Measurement of the Casimir Force	Nguyen	H
Brinkster	John Francis	1943	A Resonant Cavity Magnetron	Nichols	M H
Chubb	Nicholas C	1943	Twin-T Impedence Measuring Circuit	Nichols	M C
Hamilton	Gordon R	1943	Diaelectric Measurement at 3000 MC	Nichols	M H
Mayer Griffin	Henry C J Tyler	1944	Theory and Construction of a Crystal-Controlled Oscillator	Nichols	M H
Bate	George L	1945	Generation of 2.6 cm. Waves by a Resonant Plate-Cavity Magnetron	Nichols	M H
Lindenbaum	Seymour J	1945	Dielectrical Measurements in the Anomalous Dispersion Region of Water with 3.14 cm Waves	Nichols	M C
Riggi	Charles G	1966	Form Factors for $[\rho, \alpha]$ Reactions Using Woods-Saxon Wave Functions for the Picked Up Nucleus	Nolen	J A

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Weiss	Jeffrey M	1966	Energy Levels of Rh <sup>101</sup> Observed in Pd <sup>104</sup> [P,A] Rh <sup>101</sup> at 17.5 MeV	Nolen	J
Geller	Alan S	1978	A New Cosmological Solution to the Einstein Field Equation	Nutku	Y
Ure	James M	1977	A Simple Approach to Three-Thrust Out-of- Plane Transfer Orbits and its Applications	O'Leary	B
Rowntree	David C	1988	High T <sub>c</sub> Superconducting Tunnelin	Ong	N P
Qureshi	Naser	1994	A Sensitive R-F Technique for Measuring the Complex Conductivity of Superconducting Crystals	Ong	N-P
Wagner	Wolfgang	1994	A Novel Technique for Measuring the Temperature Dependence of the Hall Signal in High T <sub>c</sub> Superconductors	Ong	N-P
Kevles	Daniel J	1960	A Portable Transistorized Radiation Counter	O'Neill	G K
Heyn	Maarten P	1961	Design and Properties of a Neon Filled Spark Chamber in a Magnetic Field	O'Neill	G K
Wong	Jacob Y M	1962	Theroy and Methods of Magnet Systems Design	O'Neill	G K
Witschey	Walter R T	1963	Pressure Dependence of Spark Scatter, Spark Width, and Efficiency in a Spark Chamber	O'Neill	G K

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Stuart	Erik A	1994	An Investigation of the Jet Charge Assymetry in Z Decays	O'Neill	T
Gardner	John	1976	Size and Formation of Galaxies: Hot, Radiating, Spinning Spheroid Model	Ostriker	J P
Diener	Edward M	1961	The Application of Nuclear Emulsion to the $F^{19} [\rho, \alpha] O^{16}$ Reaction	Overseth	O
Daugherty	Debra Anne	1990	Numerical Analysis of Stellar Accretion	Paczynski	B
Lem	Tomasz	1993	On the Interpretation of the Dipole Moment of the Cosmic Microwave Background Radiation	Paczynski	B
Kahn	Jennifer	1993	Analysis of the South Pole Atmosphere and Sky at Four Far-Infrared Frequencies	Page	L
Tompkins	William F	1993	The Design Construction and Testing of a Fourier Transform Spectrometer	Page	L
Lalama	Salvatore J	1975	Crystalline Ordering Among Latex Spheres in Aqueous Solution	Palmer	R G
Blau	Robert B	1967	Operation and Performance of the CO <sub>2</sub> Gas Laser	Partridge	R B
Zarechnak	Alex	1968	Atmospheric Temperature due to Water Vapor	Partridge	R B

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Smith	Michael G	1969	Discrete Sources and the Cosmic Microwave Background and the Optical Depth of the Universe	Partridge	R B
Brown	James L	1969	Investigations of the Local Motion and the Hubble Diagram	Partridge	R B
Goll	Jeffrey H	1969	Gravitaional Instability in Protogobular Gas Clouds	Partridge Ruffini	R B R
Bougha	Stephen P	1969	The Isotropy of Cosmic Background Radiation at 8.6 mm	Partridge Wilkinson	R B D T
Palmer	Kirk M	1989	A Cellular Automata Model for the Evolution of Large-Scale Structure in the Universe	Peebles	P J E
Zeilik	Michael, II	1968	The Formation of the First Bound Systems from the Primeval Fireball	Peebles	P J E
Fram	David R	1968	Ionization-Recombination Coupling between Matter and Radiation in an Expanding Universe	Peebles Chiu [NASA]	P J E H-Y
Hensel	Russell S	1967	Thermal Decoupling of Radiation and Hydrogen in Big-Bang Cosmology	Peebles.	P J E
Ingersoll	Vernon	1967	Fraunhofer Diffraction Patterns from N Random Appertures	Peebles.	P J E

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Geldon	Fred M	1968	High Frequency Perturbations of the Background Radiation Spectrum	Peebles.	P J E
Felber	Franklin S	1972	Towards a Mass-Variable Scalar Tensor Theory of Gravitation and Inertia	Peebles.	P J E
Dennin	Michael	1988	A New Inflationary Scenario	Peebles.	P J E
Sachs	Elise R	1988	Brown Dwarfs: Plausible Candidates in the Search for Dark Matter	Peebles.	P J E
Sawyer	Jeffrey Y	1994	The Galactic Peculiar Velocity Field vs. The IRAS Density Survey: A Numerical Comparison	Peebles.	P J E
Perlman	David M	1967	A Study of Low-Lying Energy Levels in Sc <sup>45</sup> by Inelastic Scattering of 17.5 MeV Protons	Peterson	R J
Protopopescu	Serban	1968	A Study of the Ground State of Mn <sup>55</sup> Through the Mn <sup>55</sup> [p, $\tau$ ] Mn <sup>53</sup> Reaction	Peterson	R J
Falk	Toby	1988	Interference of Quasar Light Gravitationally Split by Cold, Dark Matter	Peterson	J
Schnee	Richard W	1989	Interference and Gravitational Lensing of Quasar Light by Cold, Dark Matter	Peterson	J
Reynolds	Doug	1990	Far Infrared Fourier Transform Spectrometer	Peterson	J
Bower	Geoffrey	1991	A One-Dimensional Model fo the Evolution of Large-Scale Structure	Peterson	J

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Griffin	Greg	1992	Galactic Emission at 90 GHz: Observations from the South Pole	Peterson	J
Starke	Charles L	1968	The Radioactivity of Cadmium 105 and Indium 106	Phillips	E A
Redi	William L	1970	Theory of the Magnetotelluric Method and Synthesis of Field Data	Phinney	R A
Yost	George P	1963	A Proposal for a Beam Survey of the Princeton-Pennsylvania Proton Synchrotron	Piroué	P A
Plauger	P J	1965	Inelastic Proton Scattering from $\text{Ne}^{22}$ and $\text{Ti}^{48}$	Pollack	R E
Tang	Kwok-K	1976	Numerical Methods for the Gravitational N-Body Problem	Press	W
Fox	Derek W	1993	Charmed Meson Lifetimes and $D^0 - \bar{D}^0$ Mixing	Purohit	M
Maffenbeier	Jack B	1953	A Cloud Chamber Triggered by Internal Proportional Counters	Rau Reynolds Hodson	R G T A L
Burns	Ronald E	1966	The Design and Operating Characteristics of a Gamma Detector	Reading	D R
Layne	Clyde B	1969	Measurement of the Nuclear Spin of $\text{Co}^{55}$ by the Atomic Beam Method	Redi	O



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Kramer	Peter R	1993	Invariant Tori of a Nearly Integreable Hamiltonian System	Reiman	A
Taylor	Eugene Shaw	1948	A Cosmic Ray Experiment	Reynolds	G T
White	Lowell D	1949	An Experiment on the Relative Intensity and the Nature of the Penetrating Component of Extensive Showers	Reynolds	G T
O'Connor	Robert B	1950	The Integral Spectrum of Low Energy Mesons	Reynolds	G T
van den Bergh	Sidney	1950	An Experiment on the Second Maximum of the Rossi Transition Curve	Reynolds	G T
Sidel	Victor W	1953	A Multiplier Phototube Study of Luminous Bacteria: An Experiment in Low Intensity Light Measurement	Reynolds	G T
Stauss	George H	1953	Some Studies in Problems of Organic Liquid Scintillation Response	Reynolds	G T
Little	Roger E	1959	A Gas Čerenkov Counter Designed to Study High Energy $\mu$ -Mesons	Reynolds	G T
Sprigg	Carroll	1960	An Investigation of the Velocity Dependence of Čerenkov Radiation	Reynolds	G T
Greenwood	Lee S, II	1961	High Energy Particle Selection and Velocity Measurement	Reynolds	G T

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Gershman	Lewis C	1962	Emission Spectrum and Quantum Yield of Cypridina Luciferin Luminescence	Reynolds	G T
Griffiths	Hugh M	1963	A Low Intensity Light Diffraction Pattern	Reynolds	G T
Miller	Jeffrey L	1966	A Physical Technique for Biological Research	Reynolds	G T
Davis	L I, Jr	1967	A Low Intensity Light Interference Experiment	Reynolds	G T
Strunk	Brian L	1967	Scintilloscopic Observation of Radioactivity in Schistosoma Mansoni Using Image Intensification	Reynolds	G T
Aurbach	Richard L	1969	On the Existence of a Rate Dependent Term in the Hanbury-Brown and Twiss Effect	Reynolds	G T
Rosenberger	David M	1972	Atmospheric Ozone and its Detection A Chemiluminescent Ozone - Ethylene Detector	Reynolds	G T
Eisen	Andrew	1976	An Image Intensifier Search for Free Ca <sup>++</sup> in Amoeba	Reynolds	G T
Hardy	Christopher, J	1977	Modifications of a Spectrograph-Image Intensifier System and its Application to the Bioluminescent Dinoflagellate Pryrocystis Fusifotmis	Reynolds	G T

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Heinz	Don C, Jr	1960	Loaded Scintillator Measurements of the Half-Life and Cross-Section of N <sup>13</sup>	Reynolds Hill	G T H
Jackson	Harold E	1954	Particle Counting with a Directional Cerenkov Counter	Reynolds Rau	G T R R
Focht	William L	1963	The Design, Construction, and Testing of a Sonic Spark Locater in a Two-Plate Sparck Chamber	Roberson	R
Downing	Arthur C	1947	An Introduction to the N-Dimensional Vector Spaces in Theoretical Physics	Robertson	H P
Giesecke	Karsten P	1972	Electromagnetic Operators for Short Wavelengths	Robson	D
Keh	Tsu-Koon	1970	Development and Science Education: A Preliminary Study of the Problems and Needs of Secondary Science Education in the General Context of Social and Economic Development in Malaysia	Rogers	E M
Komar	Arthur B	1952	On the Classical Electron	Rohrlich	F
Warner	Charles, III	1953	Energy Straggling of Electrons	Rohrlich	F
Missell	Frank P	1965	The Design and Construction of a Continuous-wave Helium-Neon Laser	Roll Wilkinson	P G D T

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Damsky	Ben Lee	1964	The Role of Dislocations in the Formation of Alkali Halide Color Centers by X-Rays	Royce	B S
Romney	Gordon W	1965	Theromluminescence of KI at Low Temperature	Royce	B
Forster	Frederic J	1966	Elementary Photoconductivity Theory and its Appplication to the Special Response Analysis of Thin-Film Cadmium Sulfide Solar Cells	Royce	B
Hanni	Richard S	1973	Electromagnetic Fields in Relativistic Regimes	Ruffini	R
McGuire	Paul M	1973	Some Two Body Solutions to the Maxwell-Einstein Field Equations	Ruffini	R
Jantzen	Robert T	1974	A Pedestrian's Guide to the Mathematics of Spatially Homogeneous Cosmology [Or: One, Two, Three ..... Cosmology]	Ruffini	R
Johnston	Mark D	1974	Spin Coefficients and Electromagnetism in Reisner-Nordstrøm Spacetime	Ruffini	R
Leach	Robert W	1974	The Accretion of a Plasma onto a Gravitationally Collapsed Object in the Presence of a Magnetic Field	Ruffini	R
Weinstein	Joseph	1975	Forced Perturbations of the Reissner-Nordstrøm Geometry	Ruffini	R

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Freese	Katherine	1977	Monte Carlo Analysis of Heavy Leptons	Sadrozinski	H F- W
Yao	Tsu	1957	The Production of $\Delta^0$ in Nuclei	Sartori	L
Sapp	William W, Jr	1960	The Fillament Scintillator Complex	Scarl	D
Spartalian	Kevork	1968	A Low Intensity Interference Experiment	Scarl	D
Risley	W	1968	Electron Tunneling in Alkali Metals	Schnatterly	S
Shand	Micheal L	1968	Optical Reflectance Studies of Silver Foils in the Wavelength Range 3300Å to 4000Å	Schnatterly	S
Silver	Bruce R	1970	Infrared Absorption in Dilute Alloys	Schnatterly	S
Rogers	Alfred M IV	1972	The Frank-Hertz Experiment in the Introductory Physics Laboratory	Schnatterly	S
Sorensen	L B	1972	An Introduction to Soft X-Ray Appearance Potential Spectroscopy	Schnatterly	S
Brown	James C	1974	Two Tunneling Experiments: The Reidel Peak and Phonon-Assisted Single Particle Tunneling	Schnatterly	S
Chabal	Yves	1974	Study of the Far UV Spectrum of Sodium Fluoride and Sodium Chloride by Electron Spectroscopy	Schnatterly	S
Schadel	Harry M III	1974	An Investigation of Magnetic Domain Structure in the Metamagnet FeCl <sub>2</sub>	Schnatterly	S

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Diana	Leonard P	1975	Silicon and Inelastic Electron Scattering	Schnatterly	S E
Anderson	Robert L	1977	Sample Preparation for Inelastic Electron Scattering Experiments	Schnatterly	S E
Belmont	Andrew	1977	Conductivity of M <sub>2</sub> P - TCNQ	Schnatterly	S E
Gural	Kenneth	1977	Atomic Plasma Oscillations in Hydrodynamic Quantum Mechanics	Schnatterly	S E
Rost	Ernest	1956	The Elastic Scattering of Protons by Mg and Al	Schrank	G
Wrenn	McDonald E	1956	Magnetohydrodynamic Oscillations of a Cylindrical Plasma	Schrank	G
Davis	Joel	1957	The Scattering of Protons on Argon 40	Schrank	G
Martin	Fred W	1957	Cross Sections of the Nuclear Reactions Mg <sup>24</sup> [p, α]Na <sup>21</sup> , S <sup>32</sup> [p, α]P <sup>29</sup> , Ca <sup>40</sup> [p,α]K <sup>37</sup>	Schrank	G
Thornbury	Thomas	1957	Focussing Effect of a Solenoidal Magnetic Field of an Ionized Gas	Schrank	G
Murphey	William M	1958	The Absolute Reaction Cross Section of the Reaction Cl35 [p,n] A35	Schrank	G E
Orville	Richard Edmonds	1958	An Investigation of Whistling Atmospherics	Schrank	G
Rosenblatt	Martin G	1958	The Excitation Function of F19 [p, n] Ne19	Schrank	G

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Brauer	Lee David	1959	The Relative Reaction Cross Sections of the Reactions $F^{19} [p, n]Ne^{19}$ and $F^{19} [p, \alpha n]O^{15}$	Schrank	G
Huber	David	1959	Theoretical Determination of the Magnetic Moment of $Na^{21}$	Schrank	G
van der Hoeven	Bernard J C Jr	1959	A Natural and a Hydromagnetic Hydraulic Jump	Schrank	G
Nelson	Erik J	1993	Muon Identification in Fermilab Experiment 791	Schwarz	A
Baugh	William N	1977	Anti-Sway Bars and Their Effects on Over- and Understeer	Seckel	E
Hirschfeld	Peter	1978	Gauge Fixing Ambiguities in Yang-Mills Theories	Seiler	E
Lee	Lily N	1989	Modeling Pressure Differences across House Walls Underground	Sextro	R
Emerick	Raymond J	1938	The Electric Arc and a Description of the Arcs in Nitrogen at Atmospheric Pressure	Shenstone	A G
Haskins	R Jr	1939	An Extension of the Arc Spectrum in Silver	Shenstone	A G
Pittenger	John T	1940	An Investigation of Cadmium Spectra in the Ultra-Violet	Shenstone	A G
Stoner	Richard G	1941	A Wavelength Table for the Gold Spectrum	Shenstone	A G

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Carter	Robert S	1948	Determination of Ultraviolet Standards in the Schumann Region	Shenstone	A G
Evans	Richard H	1955	The Arc Spectrum of Germanium	Shenstone	A G
Hastings	John R	1955	A Measurement of the He I Spectrum	Shenstone	A G
Blatt	S Leslie	1957	The $3s^2 3p^2 \text{ } ^2\text{p}^\circ - 3s 3p^2 \text{ } ^4\text{p}$ Intercombination in Singly Ionized Silicon	Shenstone	A G
Johnson	Keith H	1958	The Atomic Spectra of Doubly Ionized Silicon and Triply Ionized Silicon	Shenstone	A G
Boer	F P	1961	The Arc Spectrum of Selenium	Shenstone	A G
Monnig	George	1948	Phosphorescence in Zinc Sulphide Caused By Uranium Fission Fragments	Sherr	R
Pine	Jerome	1949	Scintillation Counter Response to Gamma Radiation	Sherr	R
Allen	William W	1951	A Method of Analysing the Trajectories of Charged Particles in Magnetic Fields and its Application to Beam Focusing Systems	Sherr	R
Bell	William W	1951	Photographic Determinatio of Radioactive Emission Spectra	Sherr	R
Miller	Roger H	1953	Measurement of K-Capture in Sodium <sup>22</sup>	Sherr	R
Goldstein	Rubin	1955	Nuclear Reactions Produced by Proton Bombardment of Nickel	Sherr	R



Student		Year	Thesis Title	Advisor	
Rapp	William E	1957	A Gas Scintillation Counter	Sherr	R
Garrell	Martin H	1960	Thick Foil Technique for Scattering Protons	Sherr	R
Wood	Robert M	1960	The Energy Dependence of the Elastic Scattering of Protons by Carbon from 14 to 18 MeV	Sherr	R
Lichtenstein	C A	1963	Excited States of $\text{Fe}^{56}$ from $\text{Co}^{59}$ [p, $\alpha$ ] $\text{Fe}^{56}$ and $\text{Fe}^{56}$ [p, p'] $\text{Fe}^{56}$	Sherr	R
Price	Robert	1950	Use of the R F Bridge in a Low-Noise Ionization Detector	Sherr Dicke	R R H
Stiles	John Callender	1950	The Scintillation Spectrometer	Sherr Hofstadter	R R
de Zafra	Robert L	1954	An Experiment in the Construction of an Ion Resonance Mass-Spectrometer	Shoemaker	F C
Richards	Susan	1975	The Design and Construction of a Spark Chamber for Display Purposes	Shoemaker	F C
Schlossberg	Mark J	1975	The Planning and Development of a Low Energy Cyclotron	Shoemaker	F C
Seward	Frederick D	1953	The Difference in Energy Loss Between Positrons and Electrons in Thin Foils as Measured with a Helical Focusing Beta-Spetrometer	Shoemaker	F C

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Albares	Donald J	1954	Construction and Operation of a Diffusion Cloud Chamber	Shoemaker Franzen	F C W
Gordon	George Stennent	1948	The Effect of Cavitation on the Formation and Dispersion of Graphite in Cast Iron	Shuh Boyles [US Pipe & Steel Resarch Dept.]	
Černe	John A	1990	High Pressure Studies Using a Diamond Anvil	Shyamsunder	E
Chan	Ho Bun	1993	Magnetic Tweezers	Shyamsunder	E
Jun	Yong-Nam	1994	Magnetophoresis	Shyamsunder	E
Jensen	Roderick V	1976	An Investigation of the Behavior of N-Body Wavefunctions Near Coincidenc Singularities	Simon	B
Hildreth	Michael D	1988	Weak Neutral Currents: A Search for the Rare Decay $K^+ \rightarrow \pi^+ \mu^+ \mu^-$	Smith	A J S
Wood	Darwin L	1942	The Infrared Absorbtion Spectra of Some Derivatives of Acrylic Acid	Smith	L G
Eisenberger	Peter	1963	The Abnormal F Band Shape in KC1	Smoluchowski	R

	Student	Year	Thesis Title	Advisor	
Oseroff	Allan R	1964	A Calculation of the Perfect Lattice Polarization Energies of Alkali Halides	Smoluchowski	R
Pandoulas	Demetris G	1964	Certain Theoretical Considerations Regarding Irradiation of KC1 Chrystals with X-Ray Energies Just Above and Just Below the C1 K-Absorbtion Edge	Smoluchowski	R
Condit	Ralph H	1951	A Study of Electrons	Smythe	C P
Keuffel	J Warren	1941	Preliminary Measurements of Neutron Resonance Widths in Silver from the Temperature Dependence of the Absorbtion Coefficient for Self-Indication	Snyder	T M
Escarce	José J	1975	A High Temperature Expansion for the Density Matrix in Statistical Mechanics Through the Method of Path Integrals	Soper	D
Eisenstein	Daniel	1992	Observational Predictions for High-Redshift Galaxies in the CDM Texture Model	Spergel	D
Stewart	John W	1949	The Theory of Dimensions and Its Application to the Cataloguing of Physical Quantities	Stewart Bohm	J Q D
Yamamoto	Joshua S	1988	Pulsar Microstructure	Stinebring	D
Hu	Wayne	1990	Intestellar Scattering and Galactic Rotation: The Effects of Motion on Precision Pulsar	Stinebring	D R

Student		Year	Thesis Title	Advisor	
		Timing			
Butz	Andrew	1966	Propagation of Ion-Cyclotron Wave in an Infinite Cylindrical Plasma	Stix	T H
Reboul	T Mark	1977	Invariant Tensors and Spinor Methods	Tabensky	R
Hibschman	Johann A	1994	The Structure and Radiative Properties of Pulsar Termination Shocks in the Interstellar Medium	Tavani	M
Swierzbinski	Joseph E	1975	A Many-Time Formulation of Gravity for Spherically Symmetric Spacetimes	Teitelboim	C
Haber	Jonathan	1977	The Classical Mechanics of Superspace	Teitelboim	C
Bachas	Constantin	1978	Constrained Hamiltonian Systems and Supersymmetry	Teitelboim	C
Swarztrauber	Sayre	1977	Diamagnetic Levitation	Testardi	L
Havener	William N	1966	Equations of Motion for an Infinite Fluid Cylinder	Thorne	K
Wilkinson	Harry E	1952	Beta-Ray Spectroscopy - An Analysis of Niobium 90	Tomlinson	E P
Blume	Martin	1954	Galactic R-F Radiation and Cosmic Ray Electrons	Treiman	S B
Lindner	Clyde N	1955	Energy Levels of K-Mesonic Atoms	Treiman	S B

	Student	Year	Thesis Title	Advisor	
Pytte	Erling	1959	One-Dimensional Scattering Theory	Treiman	S B
Chu	Gilbert	1967	A Study of the Possibility of Time Reversal Non-Invariance with Application to the Decay $\Sigma^+ \rightarrow p + e^+ + e^-$	Treiman	S B
Young	Richard D	1946	An Investigation of Activated Alumina by X-Ray Diffraction	Turkevich [Chem]	J
Leitch	Erik M	1992	The Detection of Microlensing in Quasar Light	Turner	E
Clark	P	1989	Global Strings and Axion Radiation	Turok	N
Skrainka	Benjamin S	1989	The Wavefunction of the Universe: The Problem of Negative Probability	Turok	N
Gawiser	Eric J	1994	Cosmic Strings in an Open Universe	Turok	N
Lehoczky	Sandor G	1994	A Simple Computational Approach to the Skyrme Model	Turok	N
Collins	Hael	1991	Models for the Formation and the Evolution of Textures in the Early Universe	Turok Spergel	N D
Collins	George W III	1959	Polarization of Light Resulting from Thomson Scattering in the Binary System T T Aurigae	Van Wijk	U
Hertwich	Edgar G	1993	Solar Energy Conversion: A Comparison Between Photovoltaics and Photosynthesis	Wagner Eisenberger	S P

	Student	Year	Thesis Title	Advisor	
Beall	David S	1961	Cross Section for $C^{12}[p,d]C^{11}$ from Threshold to 19.8 MeV	Warburton	E K
Lysy	Dusan G	1970	Photon Bunching Through Stimulated Emission	Warrington	D M
Howe	Nicholas R	1993	A Statistical Measure of Phase Correlation in Large Scale Structure	Weinberg	D H
Roop	R W	1939	The Relation Between the Impedence of an Absorbing Surface and the Reverbation Chamber Absorbtion Coefficient	Wheeler	J A
Edmonds	Frank N Jr	1941	A Theoretical Discussion of Negative Ion Production for Electron Capture by Diatomic Molecules	Wheeler	J A
Hart	Stephen C	1942	Intensity of Absorption of Energy as a Function of Frequency of Incident Radiation	Wheeler	J A
Kane	Evan O	1946	Theory of the Allowed Cone of Cosmic Radiation	Wheeler	JA
Drell	Sidney	1947	Radiating Electrons	Wheeler	J A
Hardin	William D	1948	An Experiment to Determine the Penetrating Ability of Extensive Showers	Wheeler	J A
Dwight	Kirby Jr	1949	Solar Magnetic Moment and Diurnal Variation of Cosmic Ray Intensity	Wheeler	J A

Student		Year	Thesis Title	Advisor	
Ernst	Frederick J Jr	1955	Spherical, Linear and Toroidal Geons	Wheeler	J A
Willey	Raymond	1957	Relativity and Observational Cosmology	Wheeler	J A
Adams	Barclay	1958	Investigations for a Covariant Transport Equation fro Non-Interacting Particles	Wheeler	J A
Klauder	Louis T	1958	Cosmology in 1958	Wheeler	J A
Christakis	Alexander N	1959	Intrinsic Curvature for the Harrison Metrics	Wheeler	J A
Marzke	Robert F	1959	Theory of Measurement in General Relativity	Wheeler	J A
Sharp	David	1960	One and Two-Surface Formulations of the Boundary Value Problem for Einstein-Maxwell Theory and "Already Unified" Theory	Wheeler	J A
Sherwood	Arnold I	1960	Comparison of Field Measurements in Two Classical Theories	Wheeler	J A
Chaio	Raymond	1961	The Two-Surface Formulation of the Boundary Value Problem for the Simple Harmonic Oscillator and the Electromagnetic Field	Wheeler	J A
Wong	Cheuk-Yin	1961	Regge's Method of Simplectic Triangulation in General Relativity	Wheeler	J A
Redish	Edward F	1963	Electromagnetic Field Surfaces in Spacetime	Wheeler	J A

Student		Year	Thesis Title	Advisor	
Cooper	Duncan L	1965	Variational Properties of Chern's Invariant Differential Forms [Math Dept.]	Wheeler	J A
Kellogg	Alan T	1965	Lifetimes of Near-Critical Masses Against Spontaneous Gravitational Collapse	Wheeler	J A
Meltzer	David W	1965	On the Stability of Neutron Stars	Wheeler	JA
Nash	Thomas	1965	Gravitational Multipoles: Geometrodynamical Perturbations on the Hamiltonian of Isolated Systems and Bodies	Wheeler	J A
Ritter	James G	1965	The Cauchy Problem for the Klein-Gordon and DeWitt Equations	Wheeler	J A
Stephenson	Robert S	1965	A Regge Model of the Taub Universe at a Moment of Time-Symmetry	Wheeler	J A
Belasco	Elliot P	1967	Notes on a Formulation of the Problem of Initial Conditions in the Cauchy Problem of General Relativity	Wheeler	J A
Godine	John E	1967	Approximate Imploding Wave Solutions to the Equations of Acoustics, Electromagnetism, and General Relativity	Wheeler	J A
Stern	Michael D	1967	Investigations of the Topology of Superspace	Wheeler	J A



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Stevason	John	1967	An Investigation of a Non-Machian, Closed Universe within the Framework of General Relativity	Wheeler	J A
Cohen	Richard S	1968	Theory of the Measurement of the Curvature Tensor	Wheeler	J A
Shamos	Michael I	1968	Gravitational Radiation Reaction	Wheeler	J A
Kegeles	Lawrence S	1969	Gravitational Radiation in the Friedman Universe	Wheeler	J A
Melosh	Henry J IV	1969	Toward a Consistent Quantum Electrodynamics	Wheeler	J A
Okerson	David J	1969	The Mixmaster Universe and Particle Formation	Wheeler	J A
Philips	Thomas O	1969	Some Insights into the Incompatability of Poles and Charges	Wheeler	J A
Grief	Jeffrey M	1970	Infinite Red Shift Surfaces, Horizons and Causality Violations in the Kerr Solution	Wheeler	J A
Law	Graham D	1970	The Machian Implications of a Radiative Interpretation of Inertia	Wheeler	J A
Patton	Charles	1972	The Logical Microstructure of Physical Systems [Math Dept]	Wheeler	J A
Isenberg	James	1973	Mach's Principle Made Practicle	Wheeler	J A

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Horowitz	Gary T	1976	The Breakdown of General Relativity: Catastrophic or Inconsequential	Wheeler	J A
Kandrup	Henry E	1976	Accretion onto a Compact Stellar Object	Wheeler	J A
Jeffries	Paul C	1990	Information-Theoretic Measures in Physics	Wheeler	J A
Plecs	J J	1992 [April]	Energy without Energy: The Energetics of Gravity Waves	Wheeler	J A
Holz	Daniel	1992 [May]	Primal Chaos Black Holes	Wheeler	J A
Graves	John C	1960	Singularities in Solutions of the Field Equations for General Relativity	Wheeler Brill	J A D
Pagels	Heinz R	1960	One Surface Formulation of the Initial Value Problem for the Einstein-Maxwell Equations	Wheeler Brill	J A D
Di Sessa	Andrea A	1969	Symmetry Groups, Representation Theory, and Perturbations of a Relativistic Universe	Wheeler Bargmann	J A V
Alvarez	Orlando	1974	The Initial Value Problem and the Hamiltonian Formulation of the Einstein- Cartan-Sciama-Kibble Theory	Wheeler Blaer	J A A S
Davis	Lincoln R	1975	Pair Production and Radiation in Kerr- Newman Geometries	Wheeler Davis Ruffini Wightman	J A T R A S

Student		Year	Thesis Title	Advisor	
Chung	Tai Q	1975	Some General Theories of Parametric Instabilities in Unmagnetized Plasmas	White	R B
Wolfe	Bertram	1950	Cosmic Rays and the Acceleration of Dust Grains in Space by Supernova Radiation	Wightman	A S
MacCallum	Crawford J	1951	On the Assumption of a Universal Fermi Interaction Between Spin 1/2 Particles	Wightman	A S
Pytte	Agnar	1953	A Classical Theory of Bremsstrahlung	Wightman	A S
Greenburg	William	1963	Some Model Quantum Field Theories	Wightman	A S
Menke	Michael M	1963	A Study of the Unitary Gauge Group in Free Quantum Electrodynamics	Wightman	A S
Zee	Anthony	1966	On the Algebra of Currents in a Certain Two Dimensional Model of Quantum Field Theory	Wightman	A S
Kweh	Daniel S W	1970	Higher Spin Equations with a General Mass Spectrum	Wightman	A S
Crutchfield	William Y II	1973	A Statistical Mechanical Approach to Non-Relativistic Quantum Mechanics	Wightman	A S
Preskill	John P	1975	Broken Symmetry of the Pseudoscalar Yukawa Theory	Wightman	A S
Perry	Peter A	1977	Renormalized Integral Equations for Euclidean Quantum Electrodynamics Using the Method of Legendre Transforms	Wightman	A S

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Roos	Alice M	1977	A Structural Investigation of the Significance of the Imaginary Unit in Quantum Mechanics	Wightman	A S
Apgar	Brian A	1976	New Leptons and the Weak Interaction	Wilczek	F
Slivka	Timothy	1990	On the Kinematics of Deformable Bodies	Wilczek	F
Callen	William R Jr	1965	Predictions of the Occultations of Stars by the Echo Satellites	Wilkinson	D T
Elkin	Edward L	1965	An Investigation of the $F = 1$ Ground-State Transition in and Optically Oriented Sodium Vapor	Wilkinson	D T
Kleckner	Edward W	1965	A Photon Counting System for Variable Star Measurements	Wilkinson	D T
Shostak	Seth	1965	The Occultation of Stars by Earth Satellites	Wilkinson	D T
Caldwell	John H	1966	Holography	Wilkinson	D T
Gabel	Conger W	1967	Holography	Wilkinson	D T
Mondell	Alfred	1967	A Measurement of Cosmic Background Radiation at 3.2 cm	Wilkinson	D T
Illing	Rainer M E	1968	Observations of Seyfert Galaxies	Wilkinson	D T
Baron	William F	1969	Polarization of the Cosmic Black Body Radiation	Wilkinson	D T
Cunningham	William N	1970	Polarization of the Cosmic Background Radiation Incident from the North Celestial	Wilkinson	D T

Student		Year	Thesis Title	Advisor	
			Pole		
McCarthy	Donald W	1970	Linear Polarization of the Blackbody Radiation at 3.2 cm	Wilkinson	D T
Payne	David M	1970	A Search for a Pulsed Gamma Ray Flux from NP0532	Wilkinson	D T
Torbert	R B	1971	Construction of a Microwave Radiometer	Wilkinson	D T
Brasunas	John C	1974	A Search for Dispersed, Extragalactic Radio Pulses	Wilkinson	D T
Black	Bernard	1975	The Hanbury-Brown Twiss Effect	Wilkinson	D T
Beck	Sara C	1976	Near Infrared Observations of the H11 Region W3 [cont] with a Charge Coupled Device	Wilkinson	D T
Bernstein	Rebecca	1992	A Model for the Synchrotron Spectral Index and Galactic Emission at Cobe DMR Frequencies	Wilkinson	D T
Jones	Brian	1993	Direct Observation of the Massive Dark Halo	Wilkinson	D T
Csatorday	P	1994	Measurement of Galactic H $\alpha$ Radiation	Wilkinson	D T
Steptoe	Philip P	1973	A Wiggly Wire Seeing Monitor	Wilkinson Wickes	D T B

Student		Year	Thesis Title	Advisor	
Zachos	Cosmas K	1974	Landau Ginsburg Formalism for Anisotropic Superfluids	Witten	T A
Chubb	Talbot A	1944	The Construction of a Resonant-Cavity Transit-Time Magnetron	Wood	M B
Schonfield	Robert E	1944	The Design of a New $\alpha$ -Particle Ionisation Chamber	Wu Rosenblum	C-S S
Davidson	Douglas	1988	Sphalerons in the Weinberg-Salam Theory	Yaffe	L
O'Neill	Christopher M	1988	Fermion Soliton Stars: A Second Look	Yaffe	L
Ke	Malcolm K-W	1971	A Geometrical Analysis of the Initial Value Equations & the Sandwich Conjecture	York	J W, Jr
Sethian	John D	1972	Plasma Flucuation and Instabilities in the FM-1	Yoshikawa	S
Davisson	James W	1938	The Diffraction of X-rays and Electrons in Crystals	[not listed]	
Satterthwaite	Franklin B	1938	Some Thunderstorm Theories	[not listed]	
Adams	William A	1939	The Study of A Cathode Ray Tube with a Circular Time Base	[not listed]	
Dicke	Robert H	1939	A Logical Development of Quantum Mechanics and the Raman Effect in the Atom	[not listed]	

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Hopkinson	O W Jr	1939	Experimental Investigation of a 30,000-Line Grating, Received by the Physics Department of Princeton University in 1939	[not listed]
Waterman	Alan T Jr	1939	A Criticism of the Use of Operations in Defining Physical Concepts	[not listed]
MacNichol	Edward F	1941	A Study of High Vacuum Systems	[not listed]
Beagdon	Edwin W	1943	The Formation of Fog	[not listed]
Laine	Thomas C	1945	An Ultra-High Frequency Negative-Grid Oscillator	[not listed]
Church	Eugen L	1946	Nuclear Moments	[not listed]
Johnson	Haynes N	1946	A Study of the Infrared Transmission Spectra of the Xylenes and Ethyl Benzene	[not listed]
Burk	E H Jr	1947	The Propagation of Supersonics Through Gases, Liquids, and Solids	[not listed]
Gray	George W	1947	Interference of Microwaves	[not listed]
Beckhart	Gordon H	1948	The Vortex Tube	[not listed]
Soto	M F Jr	1948	The Liquid Drop Model and Quantum Hydrodynamics	[not listed]
Hayes	Stuart	1950	The Diffraction Pattern of a Straight-Edge	[not listed]
Mertz	Lawrence	1951	Lippmann Photography	[not listed]

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Pike	John Nazarian	1951	On the Reflection of Light from Dielectric Surfaces	[not listed]
Sykes	Langthorne	1951	A New Method for Measuring the Sensitive Time of Cloud Chambers	[not listed]
Eyck	P H Ten	1953	The Spetra of Tin in the Ultraviolet	[not listed]
Kratzer	Roland Harry	1953	The Effect of Circuit Parameters on the Production of Sparks	[not listed]
Kraus	David E	1956	An Optical Sustem for a Bubble Chamber: Operation Conditions for a Propane Bubble Chamber	[not listed]
Barach	John Paul	1957	An Analogue Computer Treatment of the Simple Regenerator and Jump Target Beam Ejectors	[not listed]
Levy	M E	1957	Characteristics of a Spark Discharge Shock Tube	[not listed]
Graham	Robert H	1959	Contributions to the Theory of Helium II	[not listed]
Jacob	Richard F	1960	The Clock Paradox in Relativity Theory	[not listed]
Gersten	Stephen M	1961	Analytic Completion and the Four Point Function in Quantum Field Theory	[not listed]



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Goodfellow	Gordon P	1961	The Determination of the Differential Cross Section of the Nuclear Reaction $\text{Co}^{59}[\text{p},\alpha]\text{Fe}^{56}$ for Various Angles Using the Photographic Method	[not listed]
Marberger	J H III	1962	On the Formal Structure of the Helicity Representation	[not listed]
Scoltock	Hugh L	1963	High Energy Potential Scattering	[not listed]
Storm	Derek W	1963	The Search for an Isomeic State in $\text{Sc}^{48}$	[not listed]
Garland	James C	1964	Electron Tunneling in Superconducting Thin Films	[not listed]
Hogan	C Micheal	1964	Non-Equilibrium Statistical Mechanics of a Two-Dimensional Gas	[not listed]
Brown	Robert A	1965	Mechanical Measurement of the Nuclear Paramagnetism of Water	[not listed]
Metzger	John K	1965	The $[\text{p},\text{n}]$ and $[\text{p},2\text{n}]$ Reactions in $\text{Fe}^{56}$	[not listed]
Baraff	David R	1966	Electron Tunneling Experiments in Noble Metals with Magnetic Impurities	[not listed]
Berger	Richard L	1966	Nuclear Magnetic Resonance and Relaxation	[not listed]
Hirsh	Leonard F Jr	1966	The Sources of Contrast in Two Types of Polarizing Interference Microscopes	[not listed]

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Lupton	John	1966	Sound Propagation in He II	[not listed]
Schleh	John E	1966	Experimental Determinaton of the Melting Curve of Argon	[not listed]
Stella	Paul M	1966	Star Scintillation	[not listed]
Timbie	James P	1966	A Study of $K^{41}$ and $K^{45}$ by [P, A] Reactions of $Ca^{44}$ and $Ca^{48}$	[not listed]
Buchner	Stephen	1968	Cosmic Background Radiation	[not listed]
Stocke	John T	1968	Magnetic Phase Transitions in Chromium and Gadolinium	[not listed]
Van Voorhis	David	1968	The 146° Phase Transition of Silver Iodide	[not listed]
Johnson	Eric T	1969	Calculation of the Absorbtion Coefficient for the Franz-Keldysh Effect	[not listed]
Myerson	Robert J	1969	The Association of Earthquakes with the Excitation of the Chandler Wobble	[not listed]
Naill	Roger F	1969	A New Positron Sensitive Proportional Counter for Use in a Magnetic Spectrometer	[not listed]
Pickrel	Steven J	1972	Trapped Surfaces and the Initial Value Problem in Geometrodynamics	[not listed]
Rogosa	David	1972	Experimental Considerations in the Decay $\Delta \rightarrow p e \nu$	[not listed]

	<b>Student</b>	<b>Year</b>	<b>Thesis Title</b>	<b>Advisor</b>
Ceuturié	Stephen H	1973	Concerning Wave Transformations in a Solid State Plasma	[not listed]
Faroe	Jed J	1973	Beam Pulse Charge Fluctuations of the Princeton University Cyclotron	[not listed]
Green	Bruce	1973	Determinism, Quantum Mechanics and Logic	[not listed]
Burrows	Adam S	1975	Particle Creation in Homogenous Cosmologies	[not listed]
Stege	George	1975	Design, Construction, and Testing of and Intelligent Terminal System Using Micro-Computer Technology	[not listed]
Redfield	Andrew C	1976	Quantum Limitations on the Availability of Spacetime Curvature	[not listed]
Stoeckenius	Jan	1976	Some Results of the Classical Limit of Boson Partition Functions	[not listed]
Kruk	Jeffrey	1977	The Effects of a Varying Gravitational Constant on the Temperature of the Earth	[not listed]
Spector	Carl	1977	The Study of Time and Transformation of Units	[not listed]
Goldsmith	David B	1978	Virtual Photoproduction of the Heavy Lepton $\tau$	[not listed]
Salkind	Louis	1978	Calculation of Beta Decay Observables	[not listed]

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Ecklund	Karl M	1989	Observation of Internal Bremsstrahlung Electron Capture from the L Shell in Terbium-157	[not listed]
Kenel	Matt B	1989	Nonlinear Dynamical Systems Prediction with Neural Networks: Results and Applications	[not listed]
Bies	William E	1990	Dynamics of Interstellar Gas in the Milky Way Galaxy	[not listed]
Gordon	Andrew	1990	Analysis of the Resonant Sub-Structure of $D^0 \rightarrow \kappa^- \pi^+ \pi^0$	[not listed]
Tanaka	Stacy	1990	Initial Calculation for the Production and Detection of Rydberg Atoms	[not listed]
Elias	George S	1991	Eigenvalues of the $\tau$ -J Hamiltonian for High $T_c$ Superconductivity	[not listed]
Gibbon	David M	1991	Preliminary Analysis for a Cross Section for the Hadroproduction of Charm at Fermilab E-791	[not listed]
McLaughlin	Gail C	1991	The El Nino Phenomena: A Model of Coupled Ocean-Atmosphere Interaction	[not listed]
Stevens	Daniel	1991	Observational Properties of Small Universes	[not listed]

	<b>Student</b>	<b>Year</b>	<b>Thesis Title</b>	<b>Advisor</b>
Metcalf	R Benton	1993	The Small Scale Effects of a Small Mass Scalar Field	[not listed]
Ryu	William S	1994	Directional Pattern Formation at the Three-Phase Contact Line in a Langmuir-Blodgett Transfer Connection	[not listed]